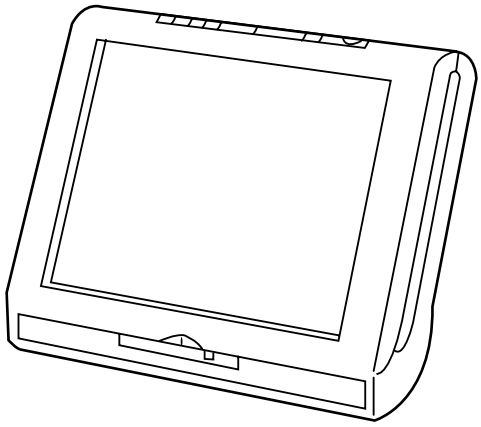
SHARP SERVICE MANUAL

S71X2LC-10A3E



LCD COLOUR TELEVISION

MODEL LC-10A3E

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

IMPORTANT SERVICE SAFETY PRECAUTION

■ **Service work should be perfomed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

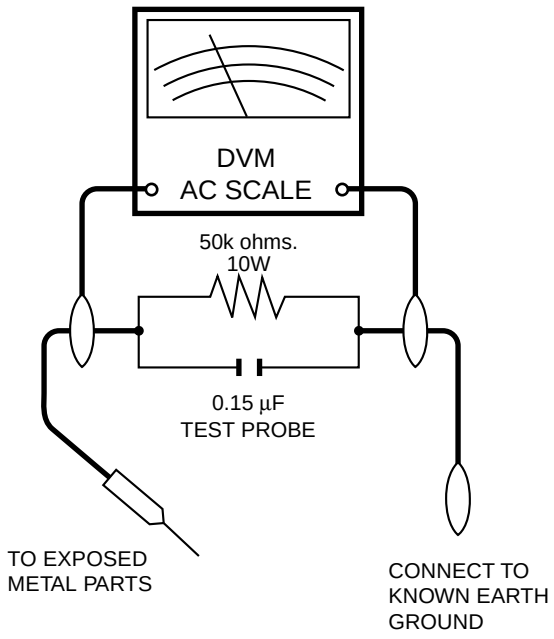
CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE FUSE. F3701 (1.25A, 250V), F3702 (1.25A, 250V), F3751 (2.0A, 250V) FUSE.

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators and etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resisor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon and etc.) and measure the AC voltage drop across the resistor.
  All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)
  Any reading of 35V peak (this corresponds to 0.7 milliamp. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage and etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " ⚠ " and shaded areas in the ***Replacement Parts Lists*** and ***Schematic Diagrams***.
For continued protection, replacement parts must be identical to those used in the original circuit.
The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

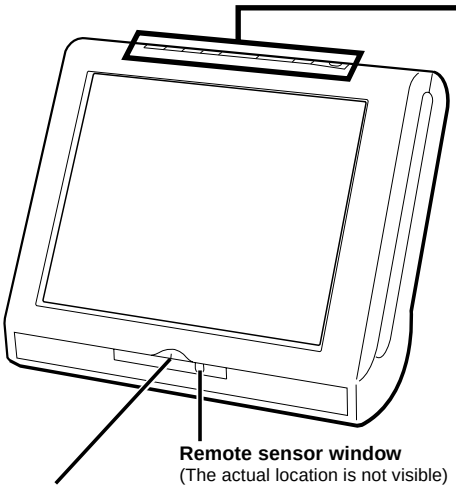
Specifications

LCD panel	10.4" TFT LCD
Number of dots	921,600 dots VGA
Video colour systems	PAL/NTSC/SECAM
TV FUNCTION	
TV Standard (CCIR)	I/DK/BG
TV Tuning System	Auto preset 100 ch.
STEREO/BILINGUAL	NICAM, IGR
AUTO PRESET	YES
CATV	~Hyper Band
4-LINE COMB FILTER	Yes
Luminance	400 cd/m^2
Lamp life	60,000 Hours
Viewing angles	H : 120°
	V : 100°
Audio amplifier	1.0 W × 2
Speakers	3 × 4 cm, 2 pcs
Terminals	
AV1	AV-IN 1, S-VIDEO-IN
AV2	AV-IN 2
AV OUT	AV-OUT
ANT	DIN
H/P	3.5 mm ø jack (Rear)
OSD Language	English/German/Dutch/French/Italian/Spanish/Swedish
Power supply	DC 12 V, AC110-240 V, 50/60 Hz
Weight	1.9 kg w/o accessories
Accessories	R/C, Batteries, Wall mount parts, AC adaptor, AC cord, AV cable for mini-jack

Design and specifications are subject to change without notice.

Operation Manual

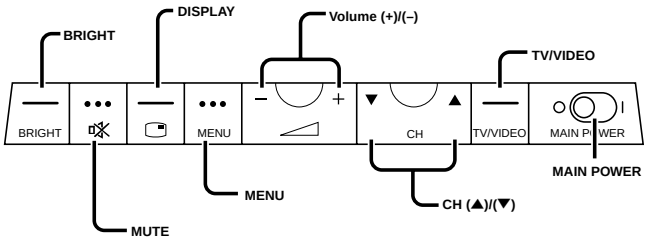
Main unit (front view)



Remote sensor window
(The actual location is not visible)

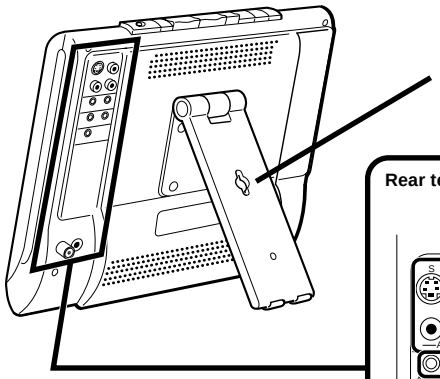
Power/standby indicator
A green indicator lights when the power is on and a red indicator lights when in the standby mode (the indicator will not light when the power is off).

Top control panel



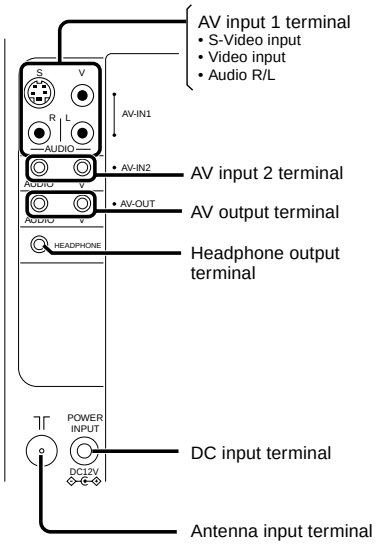
■ The **MUTE, DISPLAY, MENU, Volume (+)/(–), CH (▲)/(▼)**, and **TV/VIDEO** buttons provide the same functions as the buttons on the remote control.
(The **MENU** button has a slightly different function from the remote control button.)

Main unit (rear view)

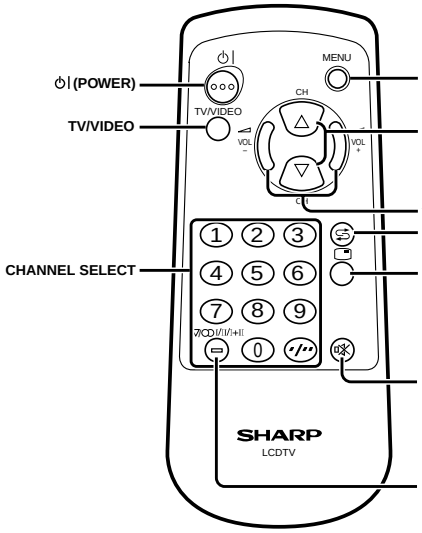


Adjust the set stand to an angle so that the screen is easily visible. The set stand can be opened up to 80°.

Rear terminal section



Remote control



MENU

CH (▲)/(▼), Cursor control Up/Down
▲Selects next higher channel
▼Selects next lower channel

VOL (+)/(–), Cursor control Right/Left

FLASHBACK
Returns to previous channel

DISPLAY
Press...Displays receiving channel for 10 seconds. Channel indication reduces in size after about 10 seconds.
Press again...Removes display.

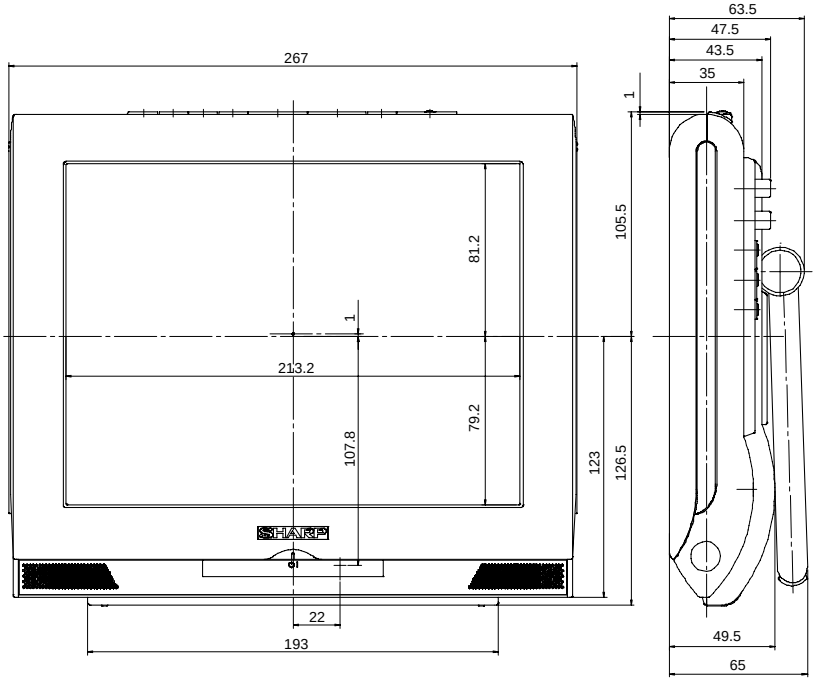
MUTE
Press...Stops sound.
Press again...Returns sound to previous level.

SOUND MODE SELECTOR
Switching audio mode.

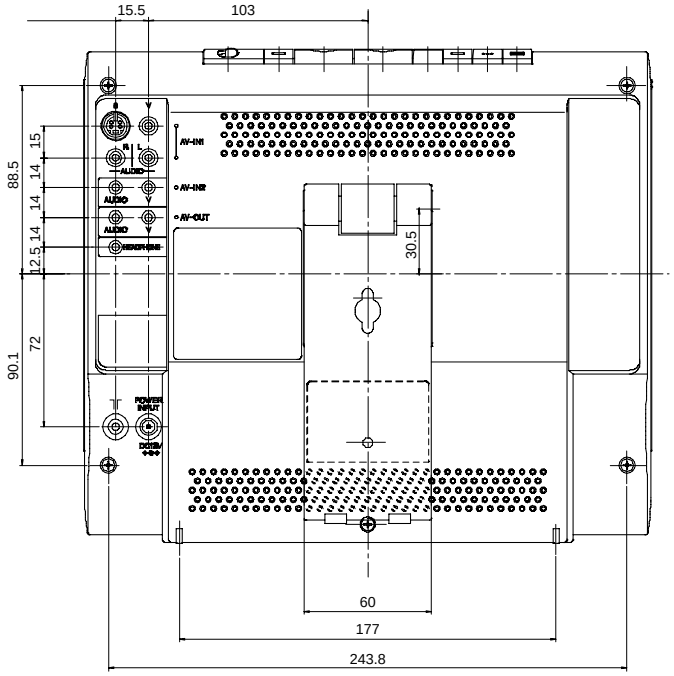
Dimensions

Front View

Side View



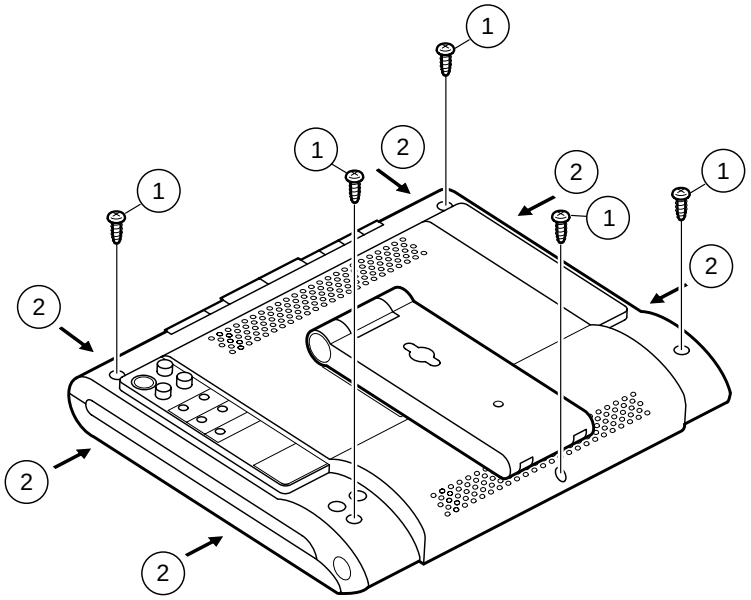
Rear View

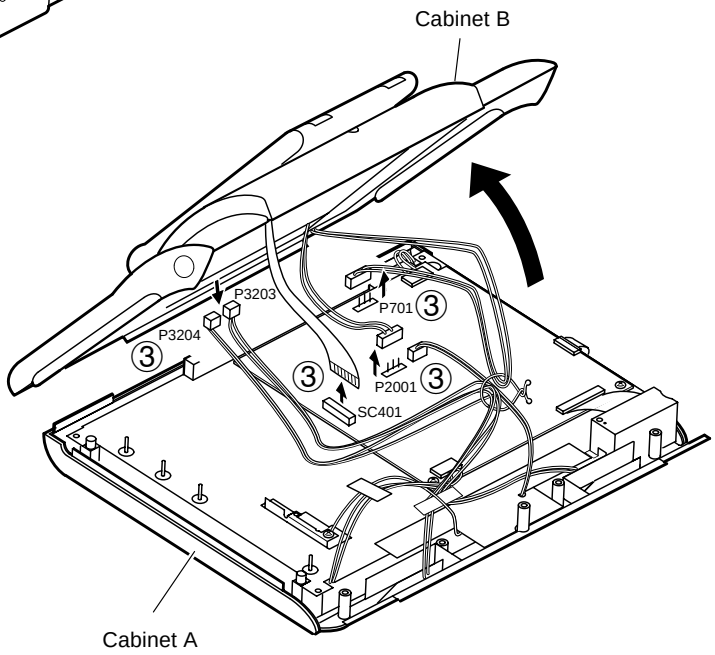


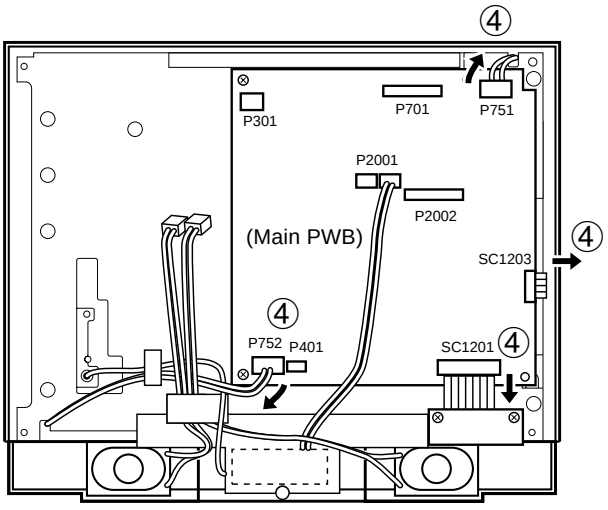
(Units: mm)

DISASSEMBLY OF THE SET

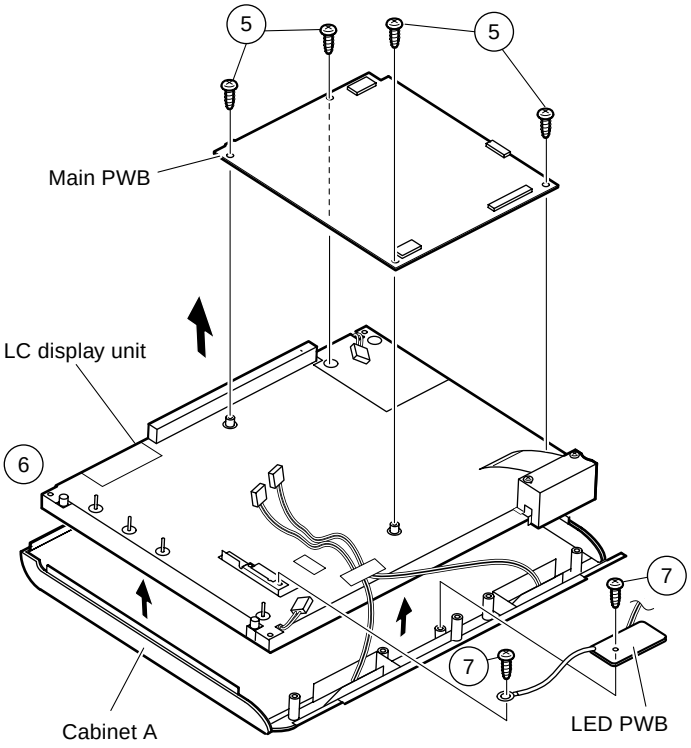
1. Remove the five lock screws (1) off the cabinet B.
2. Push on the six hooks (2) of the cabinet B and open it slightly.
3. Disconnect all the connectors (3) from the terminal and operation PWBs. Detach the cabinet B.
4. Disconnect all the connectors (4) from the main PWB.

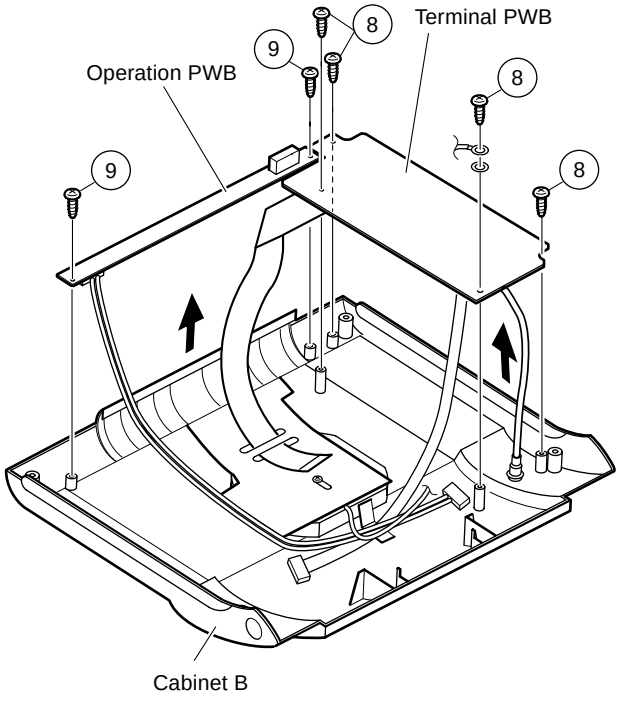


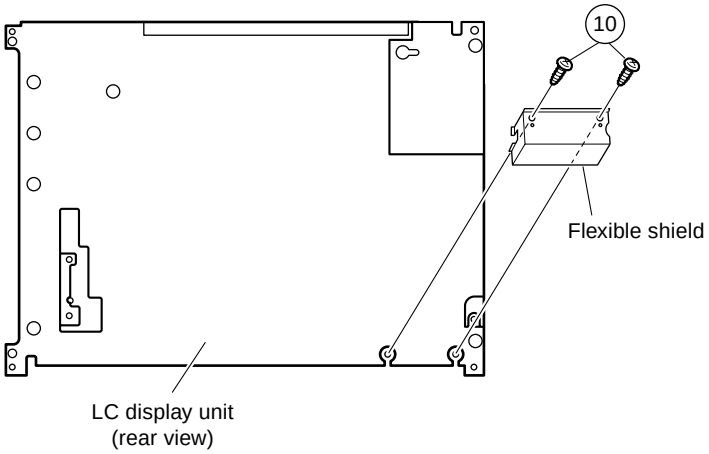




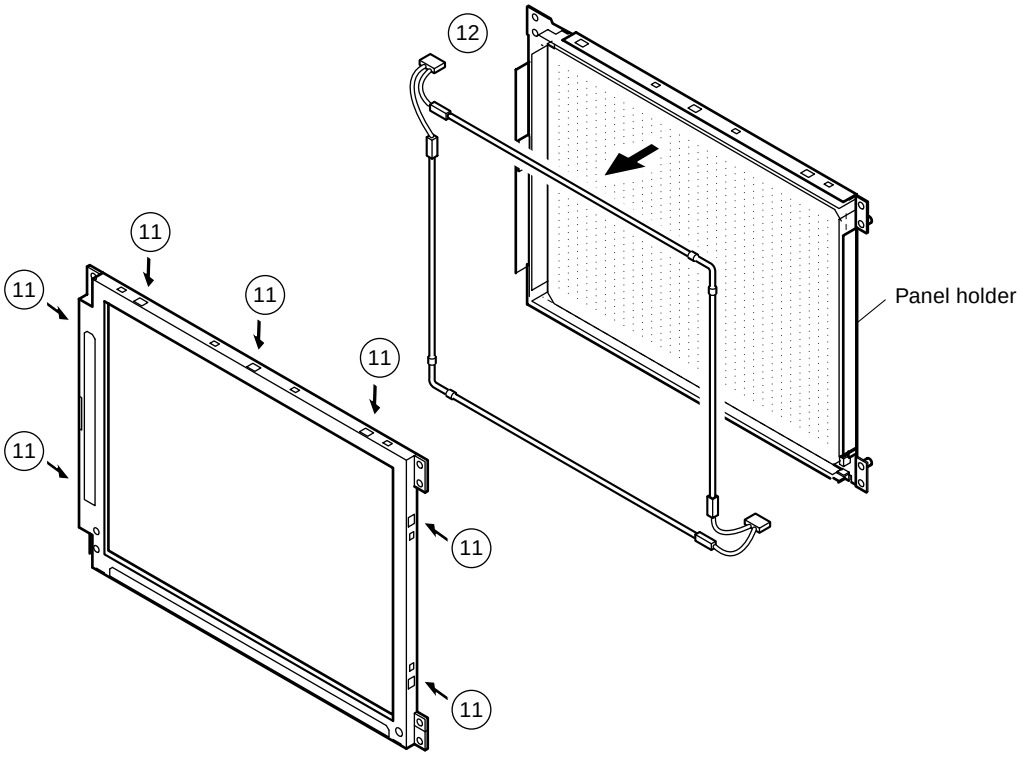
5. Remove the four lock screws (5) off the main PWB.
6. Peel off the one piece of tape (6) and detach the LC display unit.
7. Remove the two lock screws (7) off the remote control PWB.
8. Remove the four lock screws (8) off the terminal PWB.
9. Remove the two lock screws (9) off the operation PWB.
10. Remove the two lock screws (10) off the flexible shield.







11. Undo the seven hooks (11) to release the unit frame.
12. Detach the fluorescent lamp (12).



ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

1. Preparation for Adjustments

(1) Use the exclusive-use AC adapter or stable DC power supply.
AC adapter: UADP-0225CEPZ
DC power supply: 12 ± 0.5V

2. Special mode setting procedure

(1) Adjustment mode

[Procedure]

- Short-circuit TP2001 to GND, and turn on the power.
- Or short-circuit TP2002 to GND, and turn on the power.
- Or holding down the [TV/VIDEO] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [CH ▼] key and [VOL–] key to change the mode to the adjustment mode.
- Each adjustment item is chosen with the [MENU] key, and adjusted with the [VOL] key.

[Description]

The manual adjustment or adjustment through communication with the automatic machine is performed.

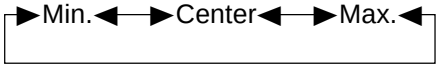
(2) Inspection mode

[Procedure]

Holding down the [TV/VIDEO] key and [MENU] key, turn on the power.
[MENU] key is pushed and made inspection mode.

[Description]

- In the ordinary menu select with the [CH] key, and decide with the [VOL] key. Then select “PICTURE”, “TINT (only NTSC)”, “COLOUR”, “BLACK LEVEL”, “SHARPNESS”, “RED-BLUE”, “GREEN” and “COLOUR SYSTEM” with the [CH] key, and decide with the [VOL] key. After that, adjust values with the [VOL] key.
- VOLUME, PICTURE, TINT (only NTSC), COLOUR, BLACK LEVEL, SHARPNESS, RED-BLUE, GREEN change as follows.



(3) Shipping setting mode

[Procedure]

Holding down the [TV/VIDEO] key and [MENU] key, turn on the main power, and simultaneously press the (inspection process) [CH ▲] key and [VOL+] key to change the mode to the shipping setting mode.

[Description]

User adjustment and other values are taken as defaults.
If TV is indicated as SETTING COMPLETE, setting has been completed.

3. Cancel of special mode

Turn off the main unit power.

4. Initialization

Here is the procedure of initializing the EEPROM and making model number and size settings.

4-1. Get Pins (81) and (82) of the IC2001 (microprocessor) grounded and turn on the power.
4-2. Select a model number (A1, A2H, A2U, A3E). For Model LC-10A3E select A3E.
4-3. Select a size in inches (10, 12, 15, 20). For Model LC-10A3E select 10.
4-4. Get Pins (81) and (82) of the IC2001 (microprocessor) back to normal.

5. Reset of lamp error

If the power LED remains red and the power is not turned on, or if repair has been performed, enter the adjustment mode to reset the lamp error.
For the resetting procedure, refer to " No power" in the "Trouble shooting Table" section.

6. Adjustments

6-1. +B adjustment
Vary the “+B-ADJ” setting on Page 1 of the adjustment process so that the voltage at pin 49 of SC401 be 5.00 ±0.02 V.
Note : Adjust precisely to 5.0 V because this level will be used as supply voltage reference.

6-2. Counter-bias adjustment
Vary the “COM BIAS” setting on Page 2 of the adjustment process so that the contrast be sharpest (black looks most sinking). The adjustment guideline is around 114 for Model LC-10A3E.

6-3. TAMP adjustment
1) Receive the colour bar signal.
2) See if the "Y" reading on page 2 of the adjustment process is somewhere between BO and BA. If not, make the "PAL TAMP" adjustment to get the "Y" reading in the range of BO thru BA.

(Adjustment process menu on-screen display on page 2)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0		2																									
1		▶	C	O	M		B	I	A	S														1	1	7	
2			P	A	L		T	A	M	P															2	7	
3			T	V		H	-	P	E	A	K	I	N	G												3	
4			R	C	U	T	O	F	F																	0	
5			G	C	U	T	O	F	F																	0	
6			B	C	U	T	O	F	F																–	1	
7			T	A	M	P		H																	B	A	
8			T	A	M	P		L																	B	0	
9			G	3			B	3			R	3					0	0			0	0			0	0	
10			G	1			B	4				Y					0	0			0	0			B	5	
11																											
12																											
13																											

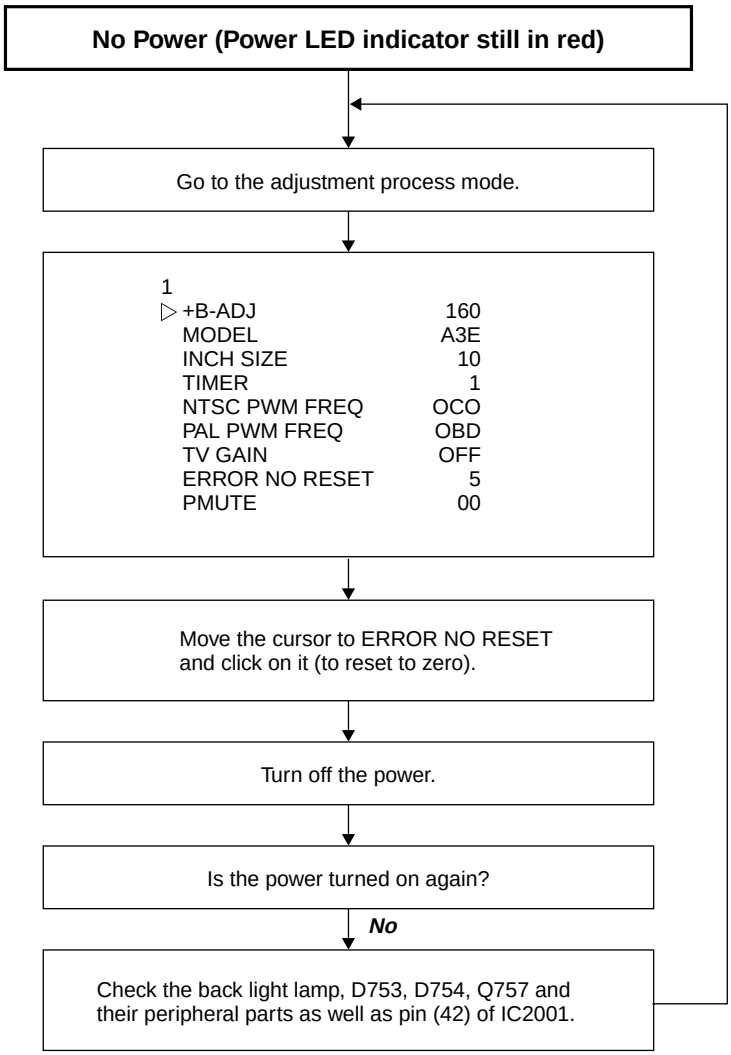
Y Data (75% white)

6-4. White balance adjustment
Vary the “RCUTOFF” and “BCUTOFF” settings to achieve optimum white balance.
Note : For the “RCUTOFF” and “BCUTOFF” settings, keep the readings in the range of -10 to +10. If out of this range, the user-adjustable range is reduced.

7. OSD Menu (for pages 1 and 2)

Page	Item	MIN	MAX	Initial Setting	Remarks
1	+B-ADJ	0	255	160	Refer to 5-1
	MODEL			A3E	Refer to 4-2
	INCH SIZE			10	Refer to 4-3
	TIMER			1	
	SYSTEM			PAL	
	NTSC PWM FREQ	000	FFF	0C0	
	PAL PWM FREQ	000	FFF	0BD	
	TV GAIN			OFF	
	ERROR NO RESET			0	
	PMUTE			00	
2	COMBIAS	0	255	117	Refer to 5-2
	PAL TAMP	0	63	27	
	TV H-PEAKING	0	63	27	
	R CUT OFF	0	7	0	Refer to 5-3 (around -5)
	G CUT OFF	-15	+15	0	
	B CUT OFF	-15	+15	-1	Refer to 5-3
	TAMP H	00	FF	BA	
	TAMP L	00	FF	B0	
	G3	-15	+15	0	
	B3	00	FF	00	
	R3	00	FF	00	
	G1	00	FF	00	
	B4	00	FF	00	
	Y	00	FF	00	

TROUBLE SHOOTING TABLE


No Power (Power LED indicator still in red)
Go to the adjustment process mode.
1
▷ +B-ADJ 160
MODEL A3E
INCH SIZE 10
TIMER 1
NTSC PWM FREQ OCO
PAL PWM FREQ OBD
TV GAIN OFF
ERROR NO RESET 5
PMUTE 00
Move the cursor to ERROR NO RESET and click on it (to reset to zero).
Turn off the power.
Is the power turned on again?
No
Check the back light lamp, D753, D754, Q757 and their peripheral parts as well as pin (42) of IC2001.

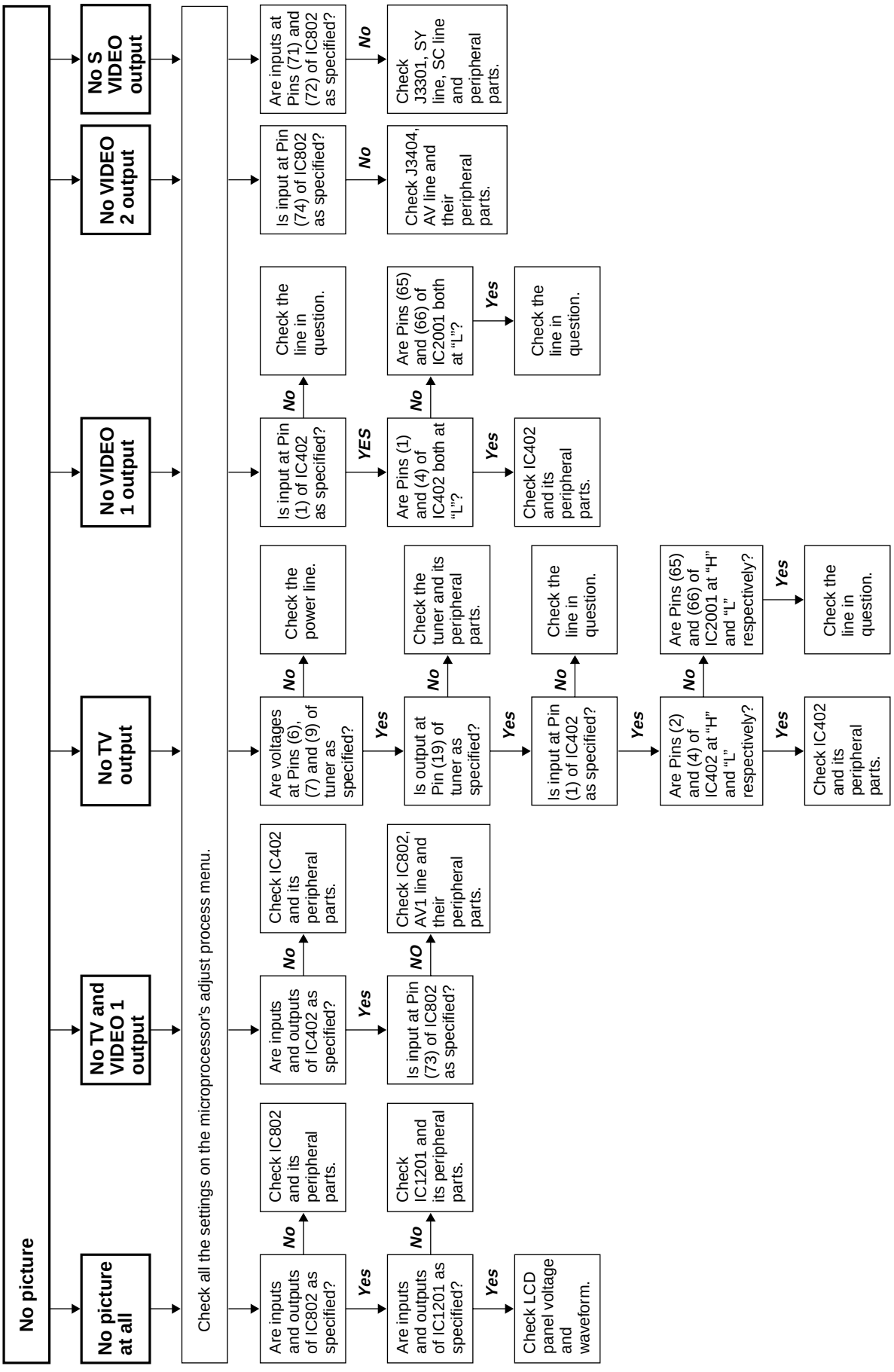
Note:

This model is equipped with the lamp error detection function that detects the current flowing into the fluorescent lamp and protects the backlight lamp drive circuit.

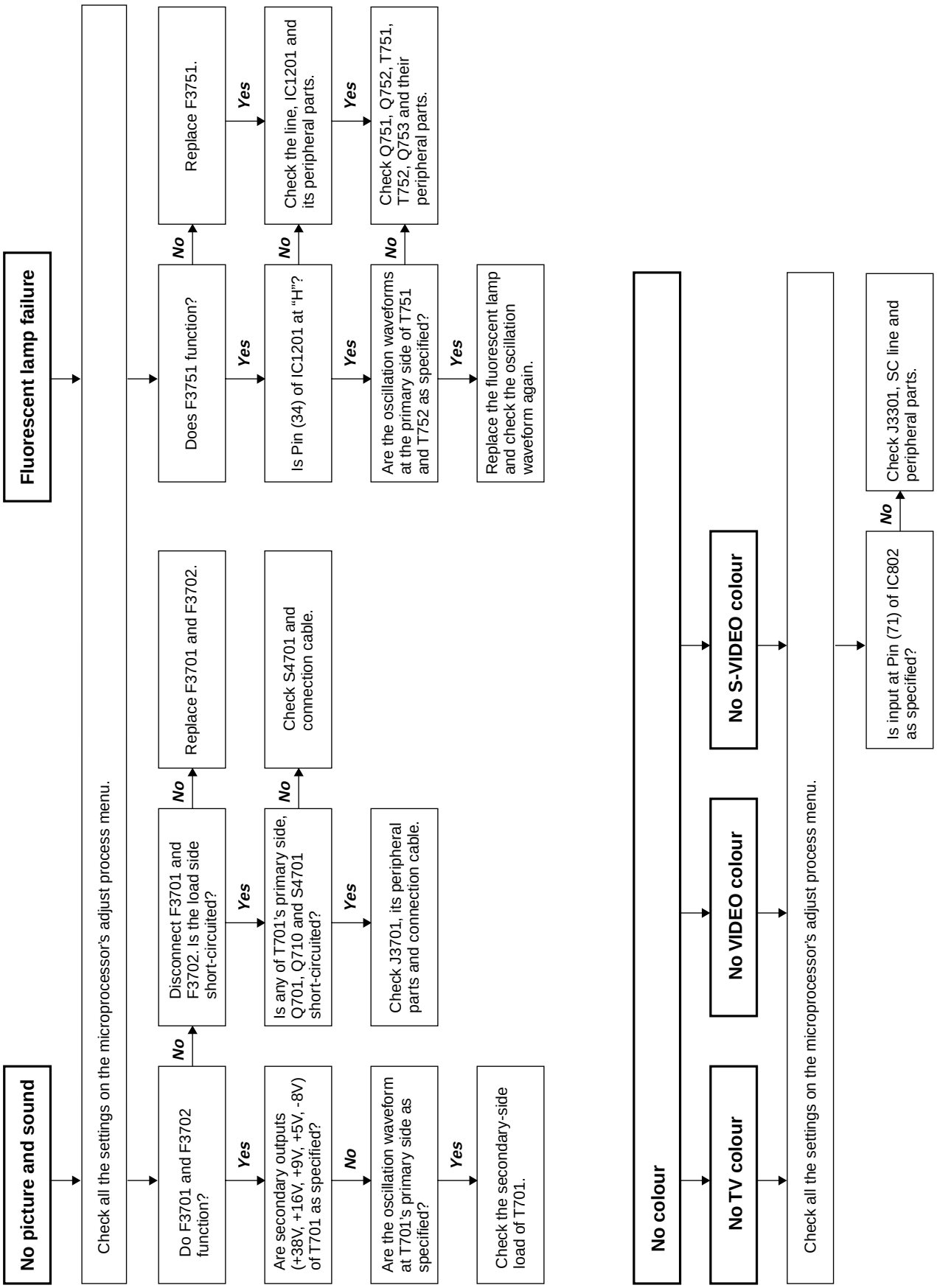
If a lamp error is detected, the microprocessor interrupts the unit and the ERROR NO RESET setting will go up.

When the ERROR NO RESET setting has reached "5", the microprocessor turns and keeps off the unit's power. To resume the power, take the above procedure to clear the ERROR NO RESET setting.

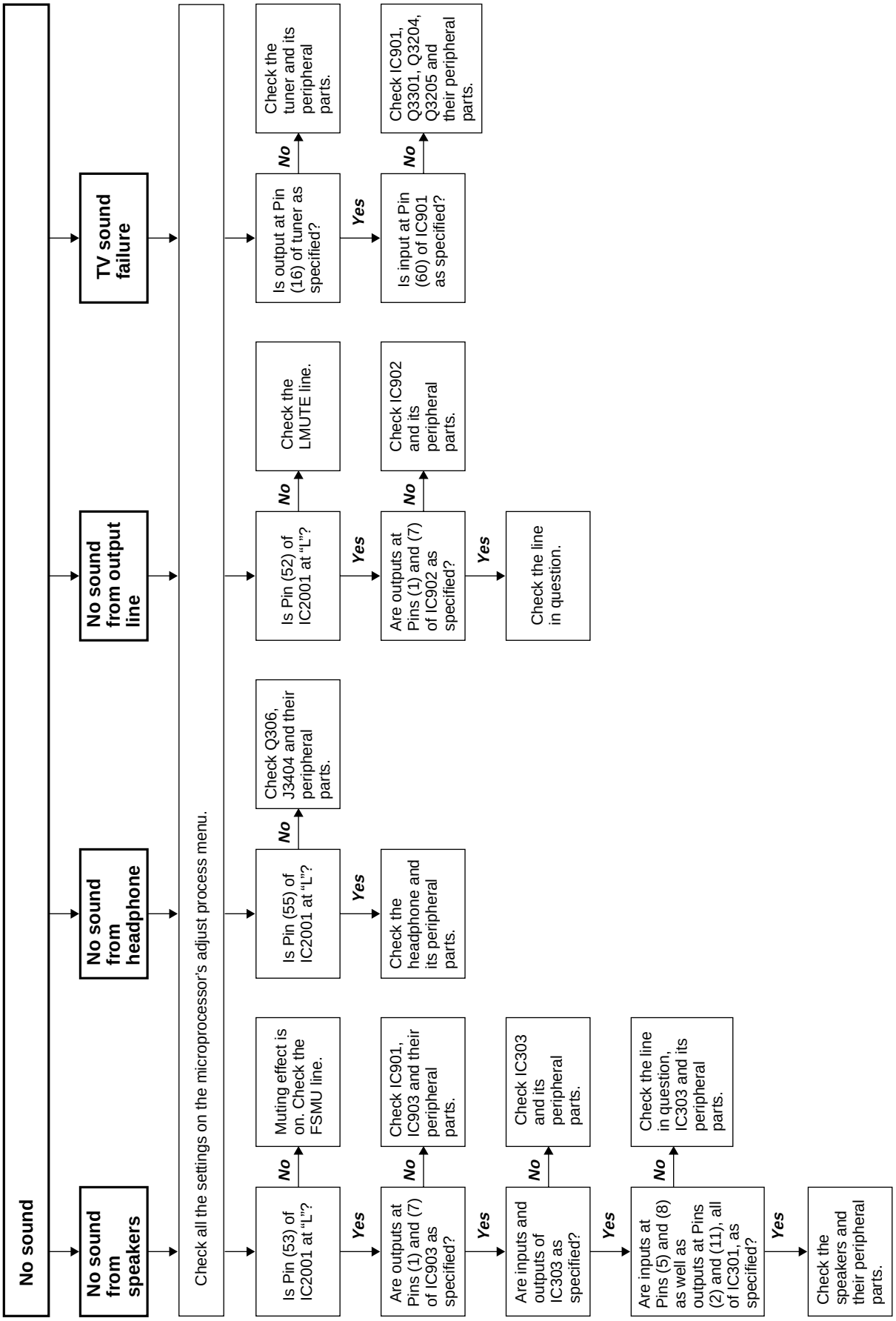
TROUBLE SHOOTING TABLE


No picture
No picture at all
Check all the settings on the microprocessor's adjust process menu.
Are inputs and outputs of IC802 as specified?
No
Check IC802 and its peripheral parts.
Yes
Are inputs and outputs of IC1201 as specified?
No
Check IC1201 and its peripheral parts.
Yes
Check LCD panel voltage and waveform.
No TV and VIDEO 1 output
Are inputs and outputs of IC402 as specified?
No
Check IC402 and its peripheral parts.
Yes
Is input at Pin (73) of IC802 as specified?
NO
Check IC802, AV1 line and their peripheral parts.
No TV output
Are voltages at Pins (6), (7) and (9) of tuner as specified?
No
Check the power line.
Yes
Is output at Pin (19) of tuner as specified?
No
Check the tuner and its peripheral parts.
Yes
Is input at Pin (1) of IC402 as specified?
No
Check the line in question.
Yes
Are Pins (2) and (4) of IC402 at "H" and "L" respectively?
No
Are Pins (65) and (66) of IC2001 at "H" and "L" respectively?
Yes
Check the line in question.
Yes
Check IC402 and its peripheral parts.
No VIDEO 1 output
Is input at Pin (1) of IC402 as specified?
YES
Check the line in question.
No
Are Pins (1) and (4) of IC402 both at "L"?
No
Are Pins (65) and (66) of IC2001 both at "L"?
Yes
Check the line in question.
Yes
Check IC402 and its peripheral parts.
No VIDEO 2 output
Is input at Pin (74) of IC802 as specified?
No
Check J3404, AV line and their peripheral parts.
No S VIDEO output
Are inputs at Pins (71) and (72) of IC802 as specified?
No
Check J3301, SY line, SC line and peripheral parts.

TROUBLE SHOOTING TABLE (Continued)

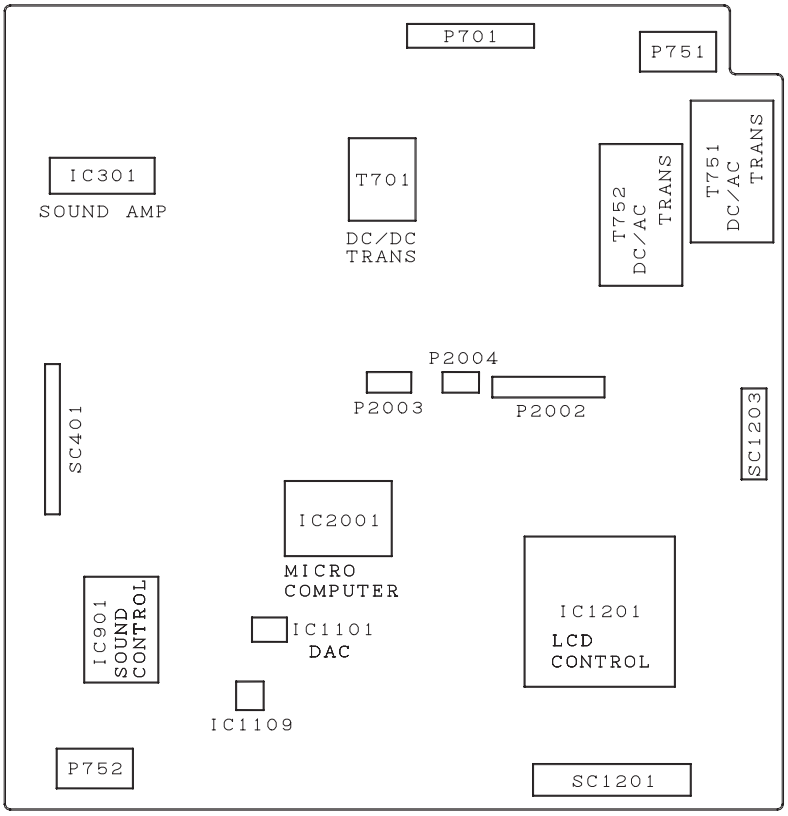

No picture and sound
Fluorescent lamp failure
Check all the settings on the microprocessor's adjust process menu.
Do F3701 and F3702 function?
No
Yes
Disconnect F3701 and F3702. Is the load side short-circuited?
Replace F3701 and F3702.
Are secondary outputs (+38V, +16V, +9V, +5V, -8V) of T701 as specified?
Is any of T701's primary side, Q701, Q710 and S4701 short-circuited?
Check S4701 and connection cable.
Are the oscillation waveform at T701's primary side as specified?
Check J3701, its peripheral parts and connection cable.
Check the secondary-side load of T701.
Does F3751 function?
Replace F3751.
Is Pin (34) of IC1201 at "H"?
Check the line, IC1201 and its peripheral parts.
Are the oscillation waveforms at the primary side of T751 and T752 as specified?
Check Q751, Q752, T751, T752, Q753 and their peripheral parts.
Replace the fluorescent lamp and check the oscillation waveform again.
No colour
No TV colour
No VIDEO colour
No S-VIDEO colour
Check all the settings on the microprocessor's adjust process menu.
Is input at Pin (71) of IC802 as specified?
Check J3301, SC line and peripheral parts.

TROUBLE SHOOTING TABLE (Continued)

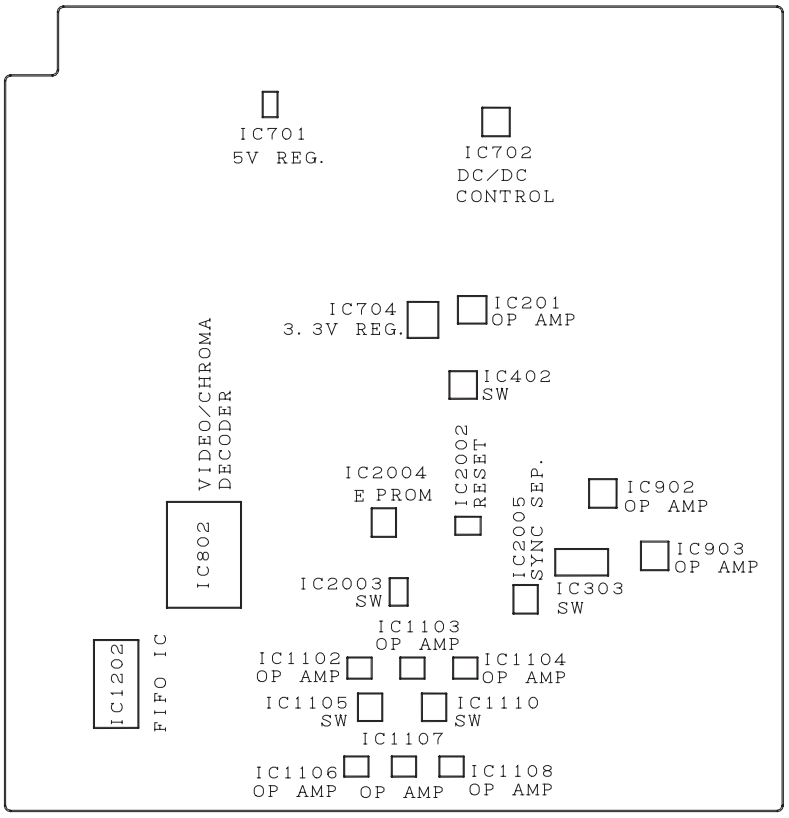

No sound
No sound from speakers
Check all the settings on the microprocessor's adjust process menu.
Is Pin (53) of IC2001 at "L"?
No
Muting effect is on. Check the FSMU line.
Yes
Are outputs at Pins (1) and (7) of IC903 as specified?
No
Check IC901, IC903 and their peripheral parts.
Yes
Are inputs and outputs of IC303 as specified?
No
Check IC303 and its peripheral parts.
Yes
Are inputs at Pins (5) and (8) as well as outputs at Pins (2) and (11), all of IC301, as specified?
No
Check the line in question, IC303 and its peripheral parts.
Yes
Check the speakers and their peripheral parts.
No sound from headphone
Is Pin (55) of IC2001 at "L"?
No
Check Q306, J3404 and their peripheral parts.
Yes
Check the headphone and its peripheral parts.
No sound from output line
Is Pin (52) of IC2001 at "L"?
No
Check the LMUTE line.
Yes
Are outputs at Pins (1) and (7) of IC902 as specified?
No
Check IC902 and its peripheral parts.
Yes
Check the line in question.
TV sound failure
Is output at Pin (16) of tuner as specified?
No
Check the tuner and its peripheral parts.
Yes
Is input at Pin (60) of IC901 as specified?
No
Check IC901, Q3301, Q3204, Q3205 and their peripheral parts.

CHASSIS LAYOUT

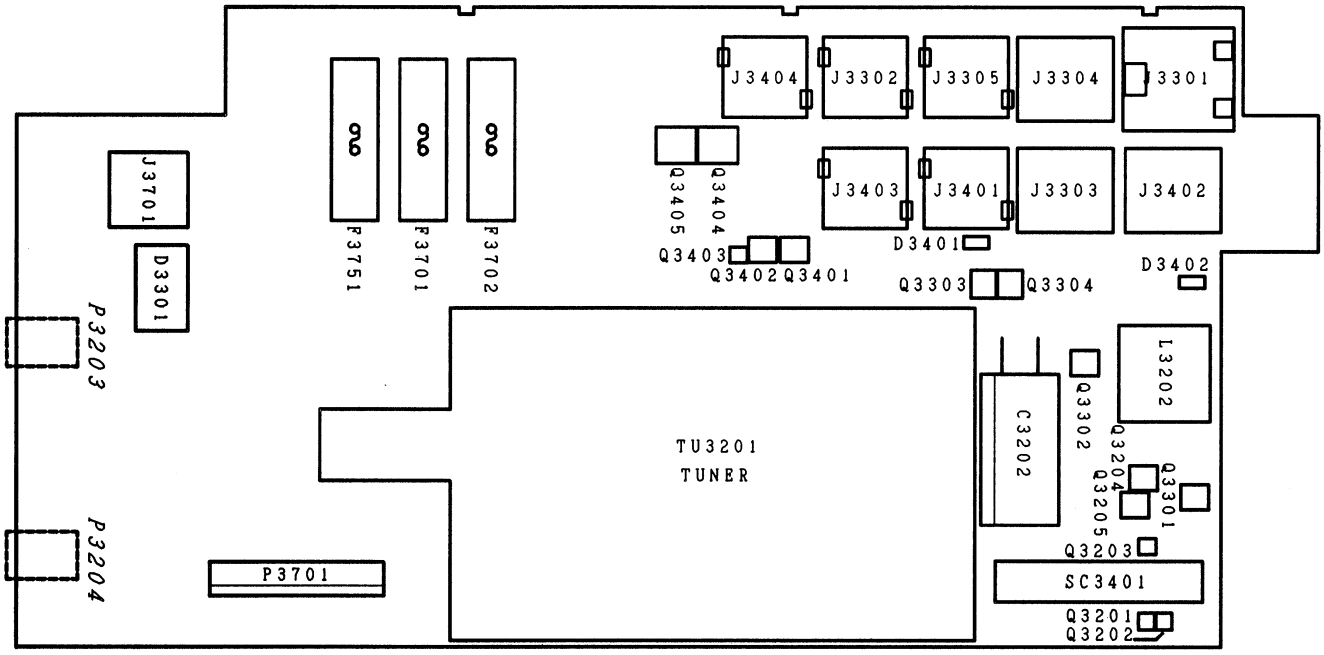
MAIN Unit (Side-A)



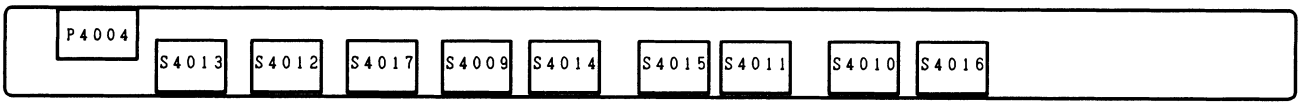
MAIN Unit (Side-B)



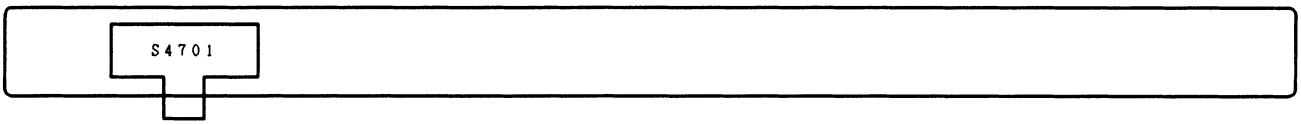
TERMINAL Unit



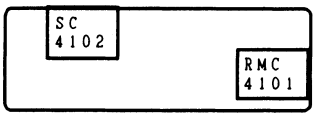
OPERATION Unit (Side-A)



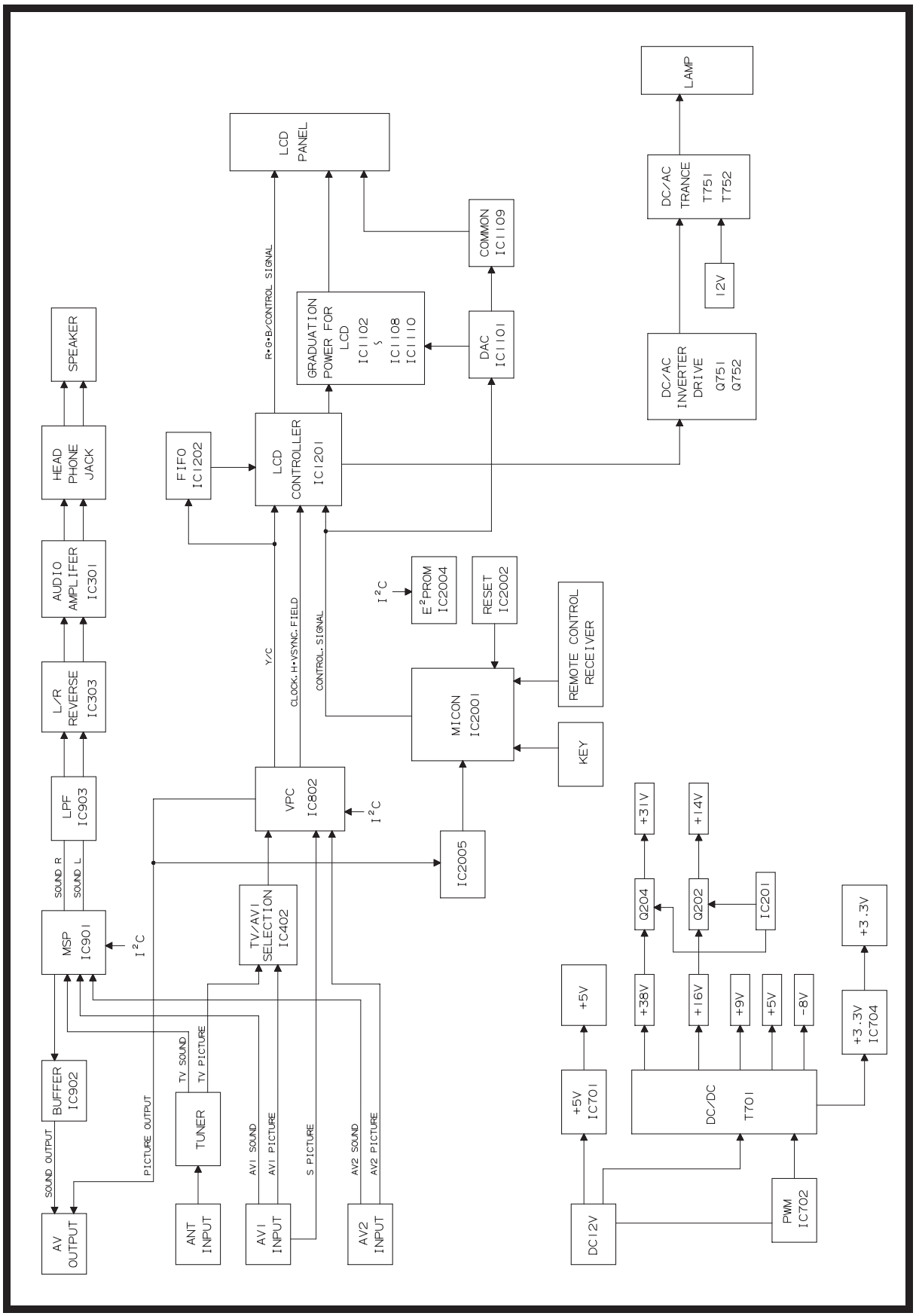
OPERATION Unit (Side-B)



LED Unit



BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour bar signal of colour bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 kΩ/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour density, lightness and colour hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.
   The wave form test point is indicated with the mark (Q) in the wiring diagram.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted.
   (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.
   (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ : Cement
   Ⓢ: Oxide Film Ⓣ : Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are mF, unless otherwise noted.
   (P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
   (ML) : Mylar (TA) : Tantalum
   (PF) : Polypro Film (ST) : Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

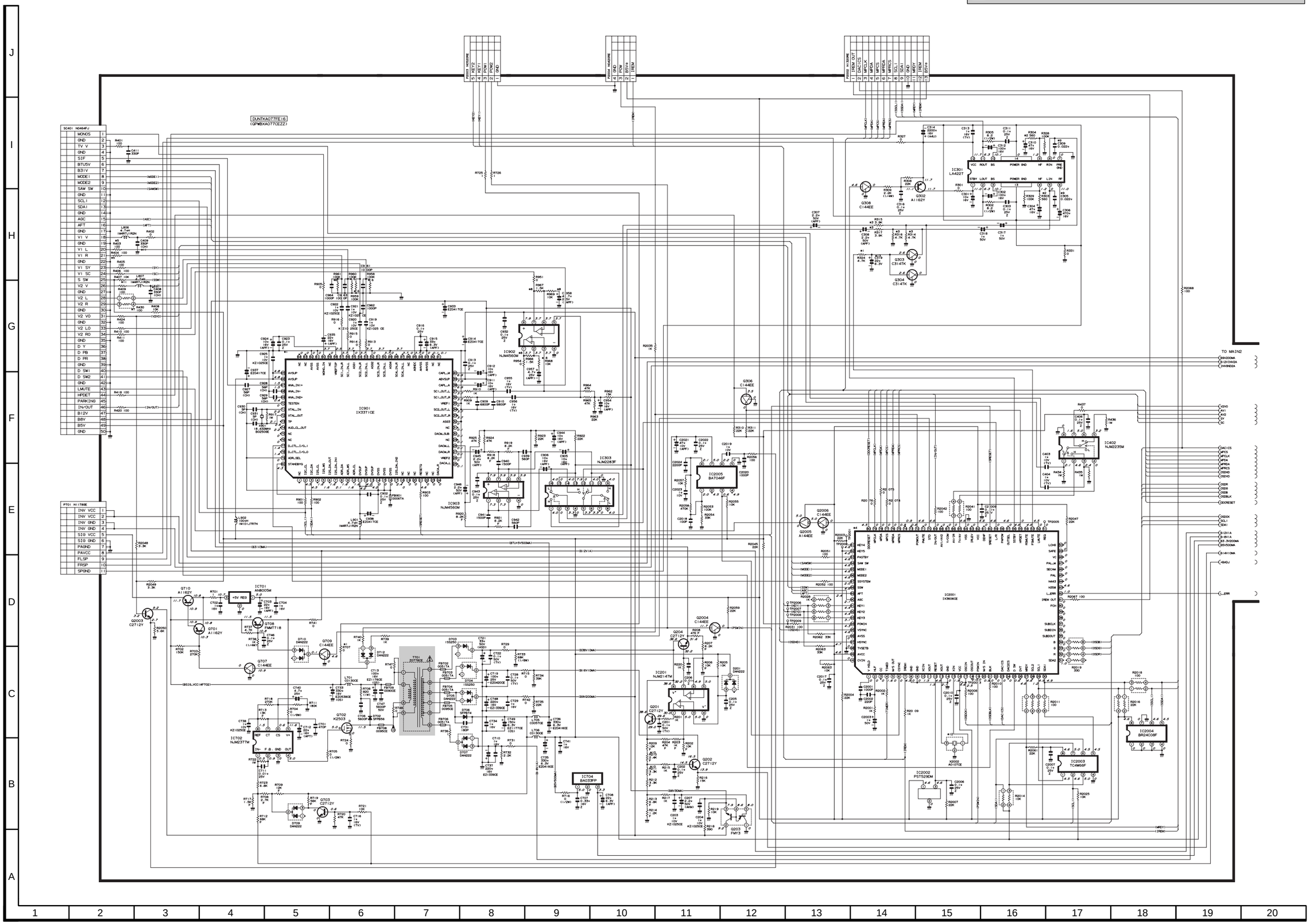
IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

LC-10A3E

■ MAIN Unit -1/2

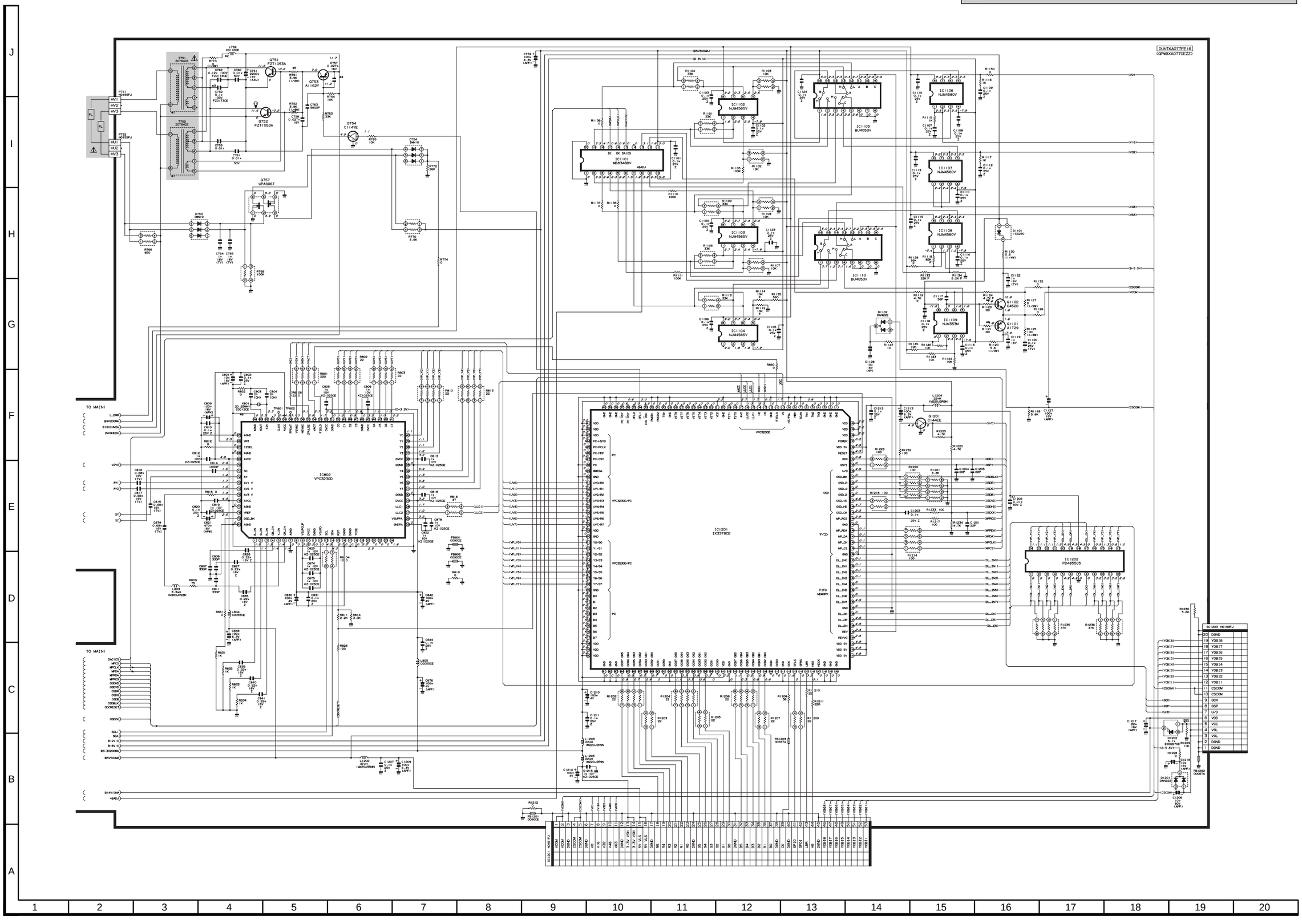
⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



LC-10A3E

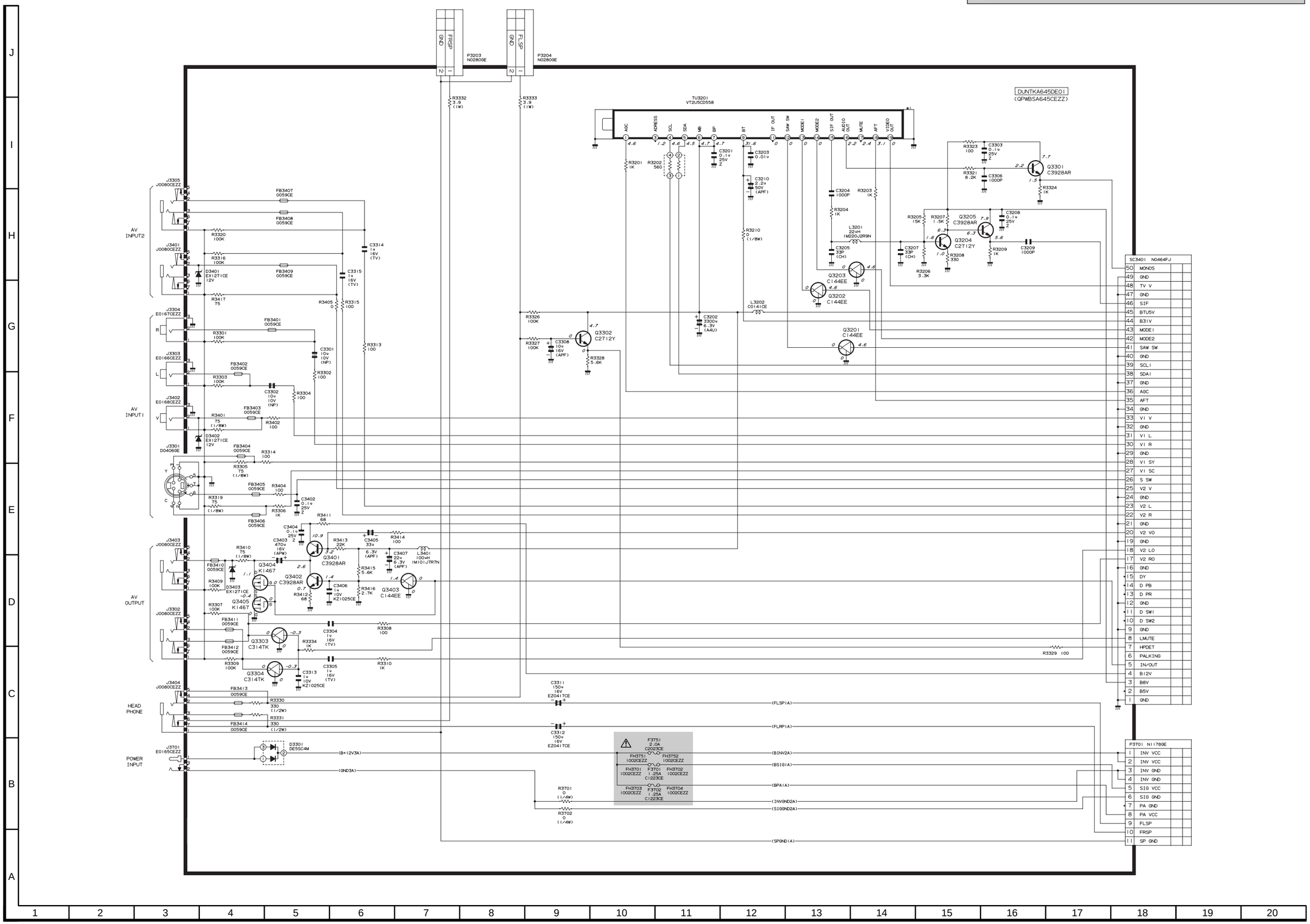
■ MAIN Unit -2/2

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS



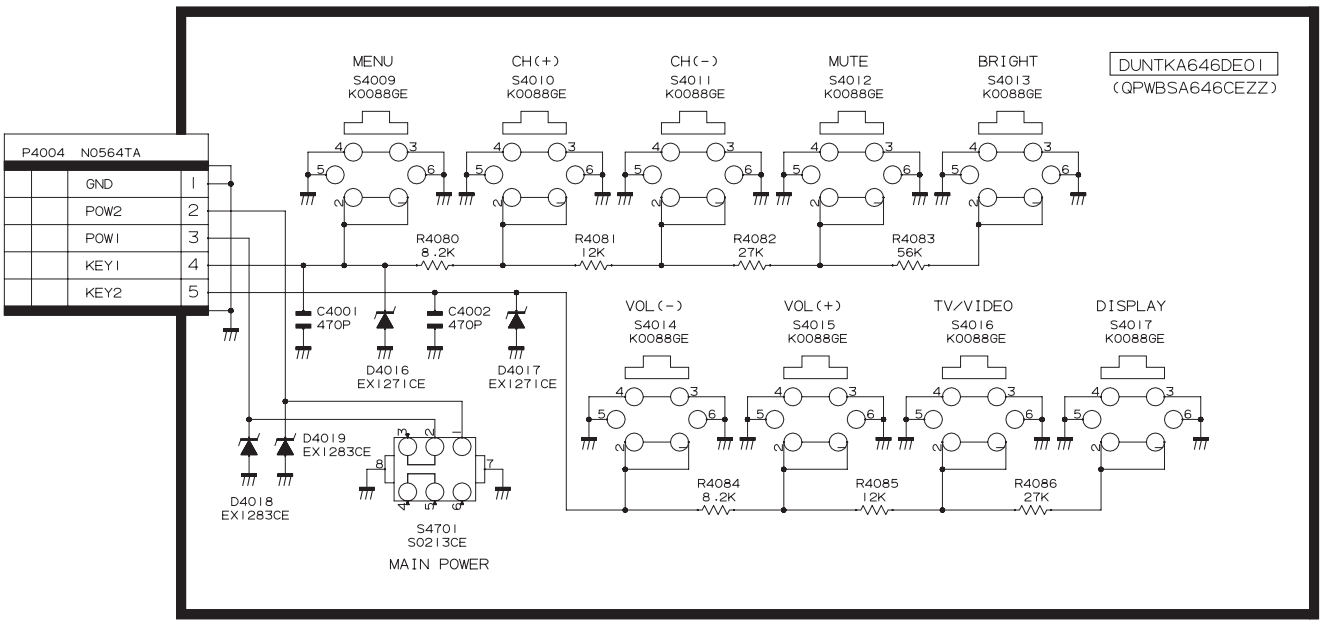
■ TERMINAL Unit

⚠ AND SHADED COMPONENTS=SAFETY RELATED PARTS

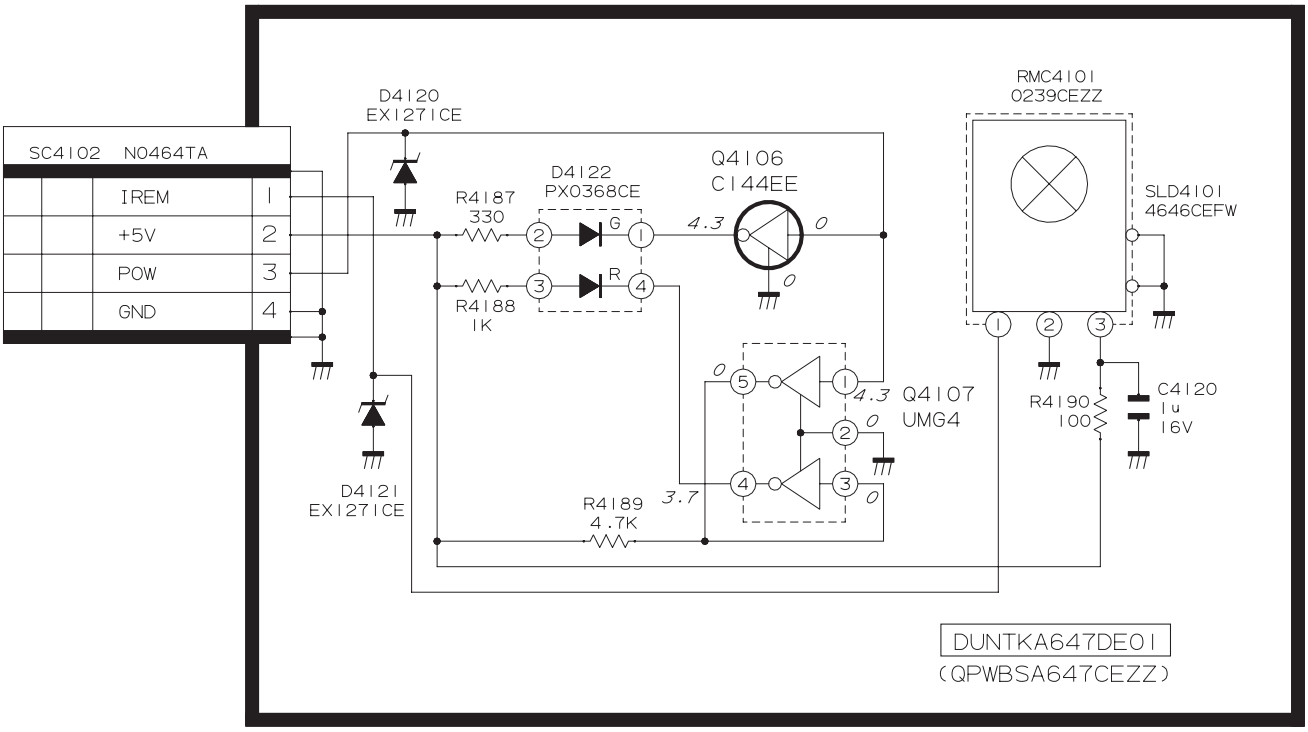


■ OPERATION and LED Unit

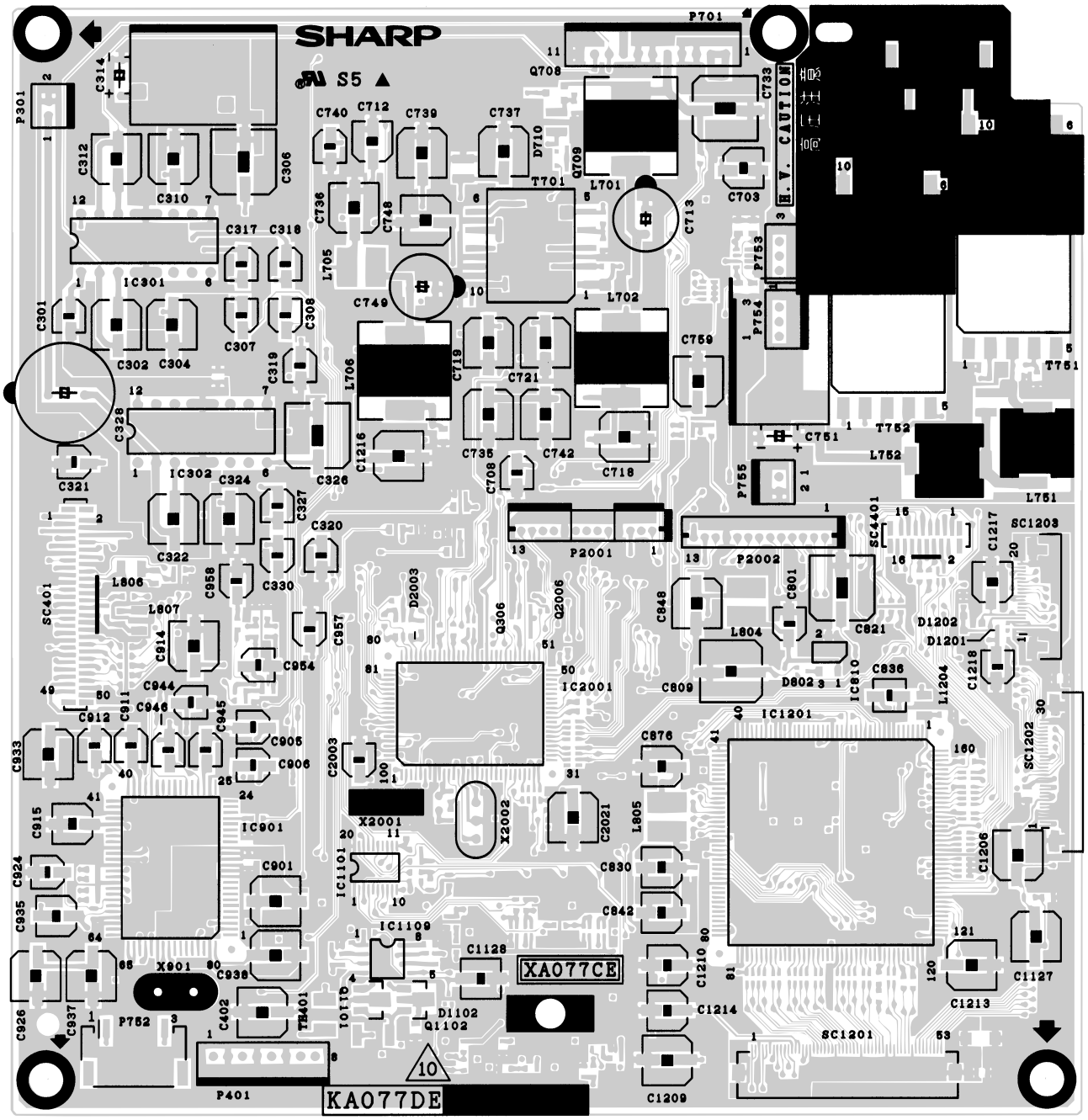
OPERATION UNIT



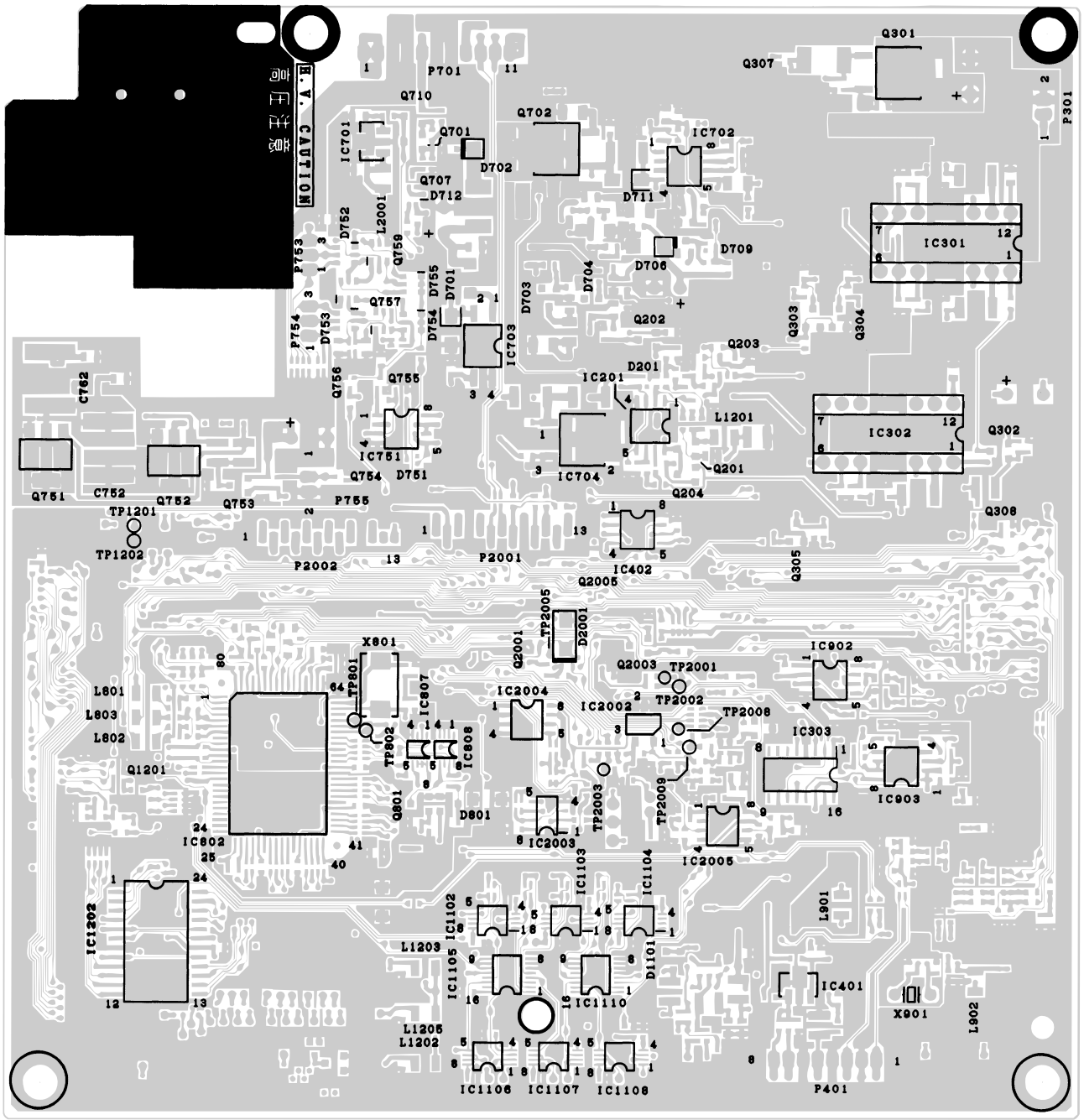
LED UNIT



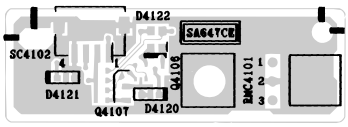
PRINTED WIRING BOARD ASSEMBLIES



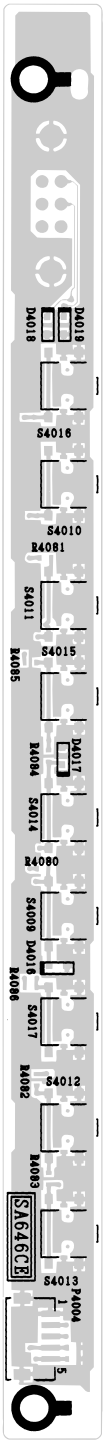
Main Unit (Side-A)



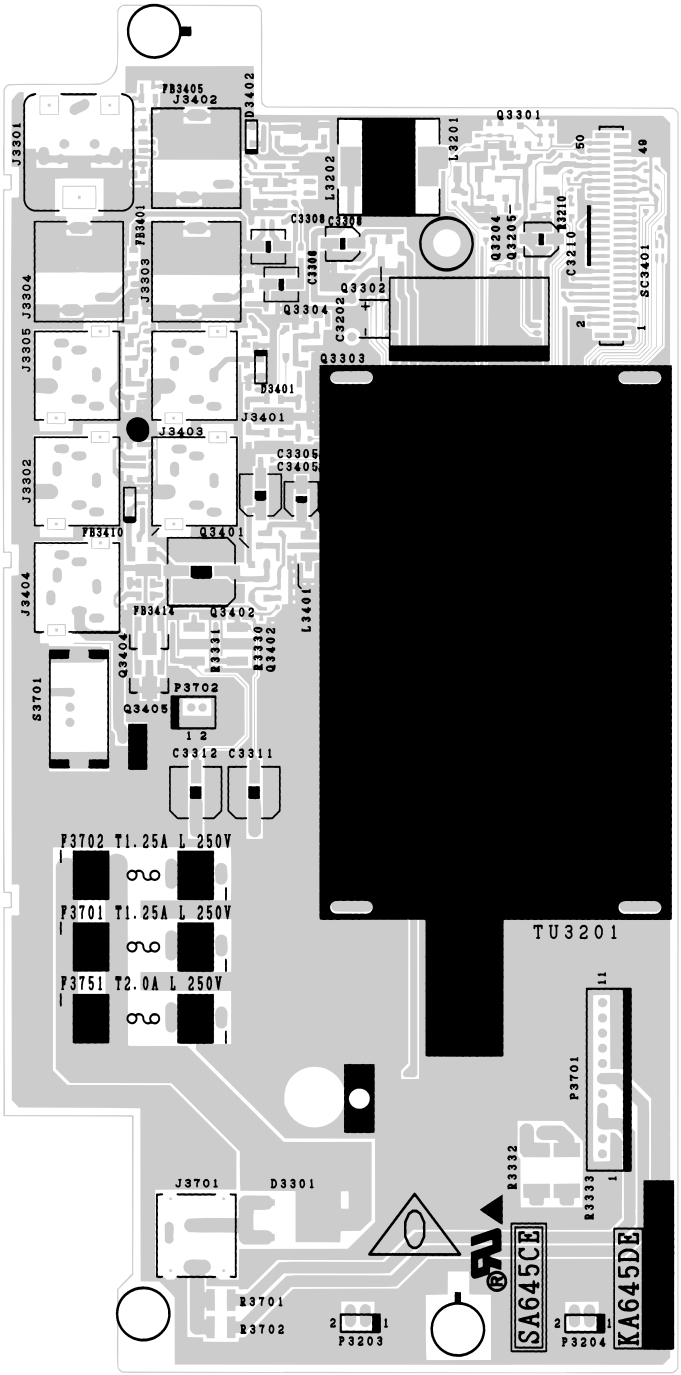
Main Unit (Side-B)



LED Unit (Side-A)

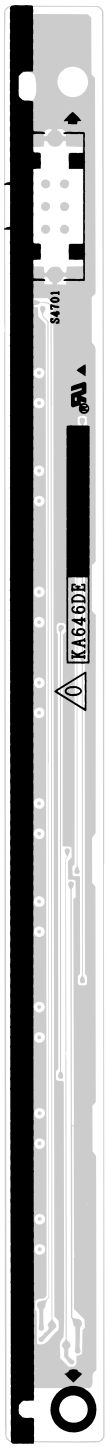


Operation Unit (Side-A)

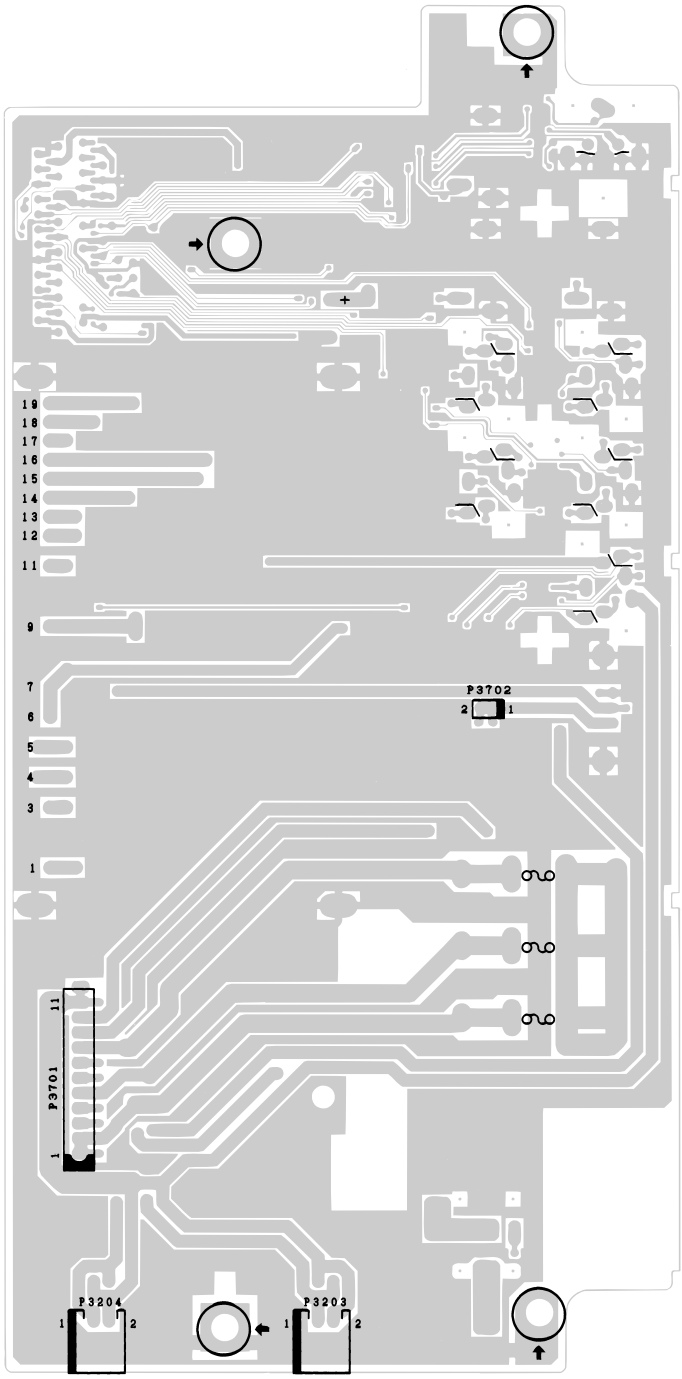


Terminal Unit (Side-A)

LED Unit (Side-B)



Operation Unit (Side-B)



Terminal Unit (Side-B)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" and shaded area in the Replacement Parts Lists and schematic diagrams.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

" HOW TO ORDER REPLACEMENT PARTS "

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER **2. REF. NO.**
3. PART NO. **4. DESCRIPTION**
5. CODE

MARK★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code

LCD MODULE UNIT

	RLCDT0067CEZZ	J	LCD Module Unit	DB

LAMP UNIT

⚠	KLMP-0116CEZZ	J	Lamp	AZ

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

DUNTKA077FE16	– MAIN Unit	—
DUNTKA645DE01	– TERMINAL Unit	—
DUNTKA646DE01	– OPERATION Unit	—
DUNTKA647DE01	– LED Unit	—

Ref. No.	Part No.	★	Description	Code

DUNTKA077FE16
MAIN UNIT

INTEGRATED CIRCUITS

IC201	VHiNJM2147M-1	J	NJM2147M	AF
IC301	VHiLA4227//-1	J	LA4227	AG
IC303	VHiNJM2283F-1	J	NJM2283F	AF
IC402	VHiNJM2235M-1	J	NJM2235M	AE
IC701	VHiAN8005M/-1	J	AN8005M	AD
IC702	VHiNJM2377M-1	J	NJM2377M	AK
IC704	VHiBA033FP/-1	J	BA033FP	AG
IC802	VHiVPC3230D-1	J	VPC3230D	BG
IC901	RH-iX3371CEZZ	J	IX3371CE	BD
IC902	VHiNJM4560M-1	J	NJM4560M	AG
IC903	VHiNJM4560M-1	J	NJM4560M	AG
IC1101	VHiMB8346BV-1	J	MB8346BV	AN
IC1102	VHiNJM4565V-1	J	NJM4565V	AF
IC1103	VHiNJM4565V-1	J	NJM4565V	AF
IC1104	VHiNJM4565V-1	J	NJM4565V	AF
IC1105	VHiBU4053V/-1	J	BU4053V	AE
IC1106	VHiNJM4580V-1	J	NJM4580V	AE
IC1107	VHiNJM4580V-1	J	NJM4580V	AE
IC1108	VHiNJM4580V-1	J	NJM4580V	AE
IC1109	VHiNJM353M/-1	J	NJM353M	AG
IC1110	VHiBU4053V/-1	J	BU4053V	AE
IC1201	RH-iX3378CEZZ	J	IX3378CE	AY
IC1202	VHiPD485505-2	J	PD485505	AY
IC2001	RH-iX3606CEZZQ	J	IX3606CE	BA
IC2002	VHiPST529DM-1	J	PST529DM	AE
IC2003	VHiTC4W66F/-1	J	TC4W66F	AE
IC2004	VHiBR24C08F-1	J	BR24C08F	AF
IC2005	VHiBA7046F/-1	J	BA7046F	AF

TRANSISTORS

Q201	VS2SC2712Y/-1	J	2SC2712Y	AB
Q202	VS2SC2712Y/-1	J	2SC2712Y	AB
Q203	VSFMY3////-1	J	FMY3	AB
Q204	VS2SC2712Y/-1	J	2SC2712Y	AB
Q302	VS2SA1162Y/-1	J	2SA1162Y	AB
Q303	VSDTC314TK/-1	J	DTC314TK	AC
Q304	VSDTC314TK/-1	J	DTC314TK	AC
Q306	VSDTC144EE/-1	J	DTC144EE	AA
Q308	VSDTC144EE/-1	J	DTC144EE	AA
Q701	VS2SA1162Y/-1	J	2SA1162Y	AB
Q702	VS2SK2503//-1	J	2SK2503	AE
Q703	VS2SC2712Y/-1	J	2SC2712Y	AB
Q707	VSDTC144EE/-1	J	DTC144EE	AA
Q708	VSFMMT718//-1	J	FMMT718	AE
Q709	VSDTC144EE/-1	J	DTC144EE	AA
Q710	VS2SA1162Y/-1	J	2SA1162Y	AB
Q751	VSFZT1053A/-1	J	FZT1053A	AG
Q752	VSFZT1053A/-1	J	FZT1053A	AG
Q753	VS2SA1162Y/-1	J	2SA1162Y	AB
Q754	VSDTC114YE/-1	J	DTC114YE	AB
Q757	VSUPA606T//-1	J	UPA606T	AD
Q1101	VS2SA1729//-1	J	2SA1729	AF
Q1102	VS2SC4520//-1	J	2SC4520	AE
Q1201	VSDTC144EE/-1	J	DTC144EE	AA
Q2003	VS2SC2712Y/-1	J	2SC2712Y	AB
Q2004	VSDTC144EE/-1	J	DTC144EE	AA
Q2005	VSDTA144EE/-1	J	DTA144EE	AA
Q2006	VSDTC144EE/-1	J	DTC144EE	AA

DIODES

D201	VHDDAN222//-1	J	DAN222	AA
D702	VHDSFPB56//2E	J	SFPB56	AC
D703	VHD1SS250//1E	J	1SS250	AB
D704	VHD1SS250//1E	J	1SS250	AB
D705	VHDDAN222//-1	J	DAN222	AA
D706	VHDSFPB74//2E	J	SFPB74	AD
D707	VHDDAN222//-1	J	DAN222	AA
D709	VHDDAN222//-1	J	DAN222	AA
D710	VHDDAN222//-1	J	DAN222	AA
D712	VHDDAN222//-1	J	DAN222	AA
D753	VHDiMN10///-1	J	IMN10	AB

Ref. No.	Part No.	★	Description	Code
	DUNTKA077FE16 MAIN UNIT(Continued)			
D754	VHDiMN10///-1	J	IMN10	AB
D1101	VHD1SS250//1E	J	1SS250	AB
D1102	VHDDAN222//-1	J	DAN222	AA
D1201	VHDDAN222//-1	J	DAN222	AA
D1202	RH-EX0227CEZZ	J	Zener Diode, 5.1V	AB
	PACKAGED CIRCUITS			
X801	RCRSC0012CEZZ	J	Crystal, CRSC0012CE	AH
X901	RCRSB0250GEZZ	J	Crystal, CRSB0250GE	AG
	FILTER			
X2002	RFiLA0107CEZZ	J	Filter, FiLA0107CE	AD
	COILS			
L701	RCiLC0130CEZZ	J	Coil, CiLC0130CE	AG
L705	RCiLC0057CEZZ	J	Coil, CiLC0057CE	AD
L706	RCiLC0130CEZZ	J	Coil, CiLC0130CE	AG
L752	RCiLC0110CEZZ	J	Coil, CiLC0110CE	AF
L803	VP-1M3R3JR93N	J	Peaking, 3.3µH	AB
L804	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L805	RCiLC0055CEZZ	J	Coil, CiLC0055CE	AD
L806	VP-1M4R7J1R2N	J	Peaking, 4.7µH	AB
L807	VP-1M4R7J1R2N	J	Peaking, 4.7µH	AB
L901	VP-1M4R7J1R2N	J	Peaking, 4.7µH	AB
L902	VP-1M101J7R7N	J	Peaking, 100µH	AC
L1202	VP-1M470J5R4N	J	Peaking, 47µH	AC
L1203	VP-1M220J2R9N	J	Peaking, 22µH	AC
L1204	VP-1M220J2R9N	J	Peaking, 22µH	AC
L1205	VP-1M220J2R9N	J	Peaking, 22µH	AC
	TRANSFORMERS			
⚠ T701	RTRNZ0778CEZZ	J	Transformer	AM
⚠ T751	RTRNZ0764CEZZ	J	Transformer	AM
⚠ T752	RTRNZ0764CEZZ	J	Transformer	AM
	CAPACITORS			
C201	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C202	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C203	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C204	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C205	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C206	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C207	VCEAKM1HW225M	J	2.2 50V Electrolytic	AB
C301	VCEAPF1CN106M	J	10 16V Electrolytic	AD
C302	VCEAPF1CN107M	J	100 16V Electrolytic	AD
C303	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C304	VCEAPF1CN476M	J	47 16V Electrolytic	AD
C305	VCKYCY1EB223K	J	0.022 25V Ceramic	AA
C306	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C307	VCEAPF1HN225M	J	2.2 50V Electrolytic	AD
C308	VCEAPF1HN225M	J	2.2 50V Electrolytic	AD
C309	VCKYCY1EB223K	J	0.022 25V Ceramic	AA
C310	VCEAPF1CN476M	J	47 16V Electrolytic	AD
C311	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C312	VCEAPF1CN107M	J	100 16V Electrolytic	AD
C313	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C314	VCEA4U1CN228M	J	2200 16V Electrolytic	AE
C316	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C317	VCEAPF1HN105M	J	1 50V Electrolytic	AD
C318	VCEAPF1HN105M	J	1 50V Electrolytic	AD
C319	VCEAPF0JW226M	J	22 6.3V Electrolytic	AB
C403	VCKYTV1AB105K	J	1 10V Ceramic	AD
C404	VCKYTV1AB105K	J	1 10V Ceramic	AD
C406	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C408	VCCCCY1HH331J	J	330p 50V Ceramic	AA
C409	VCCCCY1HH331J	J	330p 50V Ceramic	AA
C411	VCCCCY1HH331J	J	330p 50V Ceramic	AA
C701	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C702	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C703	VCEAPF1CN226M	J	22 16V Electrolytic	AD
C704	VCKYTV1CF105Z	J	1 16V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C706	VCKYCY1HB562K	J	5600p 50V Ceramic	AA
C707	VCKYCY1CF334Z	J	0.33 16V Ceramic	AA
C708	VCEAPF0JN226M	J	22 6.3V Electrolytic	AD
C710	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C711	VCKYCY1EB103K	J	0.01 25V Ceramic	AA
C712	VCEAPT1CN226M	J	22 16V Electrolytic	AC
C713	RC-EZ1176CEZZ	J	100 16V Electrolytic	AK
C716	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C719	RC-EZ0420CEZZ	J	100 25V Electrolytic	AE
C721	VCEASD1HN336M	J	33 50V Electrolytic	AD
C722	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C728	VCKYTV1HF104Z	J	0.1 50V Ceramic	AA
C729	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C731	VCCCCY1HH181J	J	180p 50V Ceramic	AA
C733	RC-EZ0538CEZZ	J	330 16V Electrolytic	AE
C734	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C735	RC-EZ0416CEZZ	J	330 6.3V Electrolytic	AD
C736	RC-EZ0416CEZZ	J	330 6.3V Electrolytic	AD
C737	RC-EZ1339CEZZ	J	220 16V Electrolytic	AD
C738	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C740	VCEAPF1EN475M	J	4.7 25V Electrolytic	AC
C741	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C746	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C747	VCKYTV1HB562K	J	5600p 50V Ceramic	AA
C748	RC-EZ1339CEZZ	J	220 16V Electrolytic	AD
C749	RC-EZ1177CEZZ	J	150 6.3V Electrolytic	AH
C751	VCEA4U1CN228M	J	2200 16V Electrolytic	AE
C752	RC-FZ0173CEZZ	J	0.1 100V M. Film	AG
C755	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C757	VCKYCY1CB273K	J	0.027 16V Ceramic	AA
C758	VCKYCY1CB273K	J	0.027 16V Ceramic	AA
C759	VCEAPF0JN107M	J	100 6.3V Electrolytic	AD
C760	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C761	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C762	RC-FZ0174CEZZ	J	0.12 100V M. Film	AG
C763	VCKYCY1HB562K	J	5600p 50V Ceramic	AA
C764	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C765	VCKYTV1CF105Z	J	1 16V Ceramic	AB
C801	VCEAPF1CN106M	J	10 16V Electrolytic	AD
C802	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C803	VCCCCY1HH7R0D	J	7p 50V Ceramic	AA
C804	VCCCCY1HH7R0D	J	7p 50V Ceramic	AA
C805	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C806	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C807	VCKYCY1HB331K	J	330p 50V Ceramic	AA
C808	VCKYCY1HB331K	J	330p 50V Ceramic	AA
C809	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C810	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C811	VCKYCY1HB331K	J	330p 50V Ceramic	AA
C812	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C813	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C814	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C815	VCKYTV1CF684Z	J	0.68 16V Ceramic	AB
C816	VCKYTV1CF684Z	J	0.68 16V Ceramic	AB
C817	VCKYTV1CF684Z	J	0.68 16V Ceramic	AB
C818	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C819	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C820	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C821	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C822	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C825	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C826	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C827	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C830	VCEAPF0GW107M	J	100 4V Electrolytic	AC
C831	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C835	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C839	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C840	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C841	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C842	VCEAPF0GW107M	J	100 4V Electrolytic	AC
C844	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C848	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C874	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C875	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C876	VCEAPF0GW107M	J	100 4V Electrolytic	AC

Ref. No.	Part No.	★	Description			Code
DUNTKA077FE16 MAIN UNIT(Continued)						
C878	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C879	VCKYTV1CF684Z	J	0.68	16V	Ceramic	AB
C902	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C905	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C906	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C909	VCKYCY1HB682K	J	6800p	50V	Ceramic	AA
C910	VCKYCY1HB682K	J	6800p	50V	Ceramic	AA
C911	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C912	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C913	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C914	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C915	VCEAPF0JW336M	J	33	6.3V	Electrolytic	AB
C916	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C919	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C920	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C921	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C922	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C923	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C924	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C925	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C927	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C928	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C929	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C930	VCCCCY1HH5R0C	J	5p	50V	Ceramic	AA
C931	VCCCCY1HH5R0C	J	5p	50V	Ceramic	AA
C932	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C933	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C935	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C937	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C938	RC-EZ0417CEZZ	J	150	16V	Electrolytic	AD
C939	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C940	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA
C941	VCKYCY1HB152K	J	1500p	50V	Ceramic	AA
C942	VCKYCY1HB561K	J	560p	50V	Ceramic	AA
C943	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C944	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C945	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C946	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C954	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C955	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C956	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C957	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C958	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C961	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C962	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C963	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C964	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1101	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1102	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1103	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1104	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1105	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1106	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1107	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1108	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1109	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1110	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1111	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1112	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1113	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1114	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1115	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1116	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1117	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C1118	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1119	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1120	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1122	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1123	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1124	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1127	VCEAPF1CN107M	J	100	16V	Electrolytic	AD
C1128	VCE9PF1CN106M	J	10	16V	Electrolytic	AD

Ref. No.	Part No.	★	Description			Code
C1201	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1202	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1203	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1204	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1205	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1206	VCEAPF1HN106M	J	10	50V	Electrolytic	AD
C1207	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1209	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1210	VCEAPF0GW107M	J	100	4V	Electrolytic	AC
C1211	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1212	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1213	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C1214	VCEAPF0GW107M	J	100	4V	Electrolytic	AC
C1215	RC-KZ1025CEZZ	J	1	10V	Ceramic	AB
C1217	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C1218	VCEAPF1CN106M	J	10	16V	Electrolytic	AD
C2001	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2002	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C2003	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2006	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2007	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2009	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2010	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2017	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2018	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C2019	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C2020	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C2021	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C2022	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2023	VCKYTV1AB105K	J	1	10V	Ceramic	AD
C2024	VCKYCY1HB222K	J	2200p	50V	Ceramic	AA
RESISTORS						
R201	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R202	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R203	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R204	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R205	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R206	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R207	VRS-CY1JF622F	J	6.2k	1/16W	Metal Oxide	AA
R208	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R209	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R210	VRS-CY1JF242F	J	2.4k	1/16W	Metal Oxide	AA
R211	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R212	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R213	VRS-CY1JF682F	J	6.8k	1/16W	Metal Oxide	AA
R214	VRS-CY1JF122F	J	1.2k	1/16W	Metal Oxide	AA
R215	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R216	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R217	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R218	VRS-CY1JF391J	J	390	1/16W	Metal Oxide	AA
R219	VRS-TV1JD103J	J	10k	1/16W	Metal Oxide	AA
R220	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R301	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R302	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R303	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R304	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R305	VRS-TX2HF8R2J	J	8.2	1/2W	Metal Oxide	AA
R308	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R309	VRS-TW2ED222J	J	2.2k	1/4W	Metal Oxide	AA
R310	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R314	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R315	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R316	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R317	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R327	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R328	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R329	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R331	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R401	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R402	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R403	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R404	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

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MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
R405	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R406	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R407	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R408	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R409	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R410	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R411	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R418	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R420	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R424	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R430	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R434	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R435	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R436	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R437	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R701	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R702	VRS-CY1JF154J	J	150k	1/16W	Metal Oxide	AA
R703	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R704	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R705	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R706	VRS-CR3AD821J	J	820	1W	Metal Oxide	AC
R707	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R708	VRS-CY1JF272F	J	2.7k	1/16W	Metal Oxide	AA
R709	VRS-CY1JF123F	J	12k	1/16W	Metal Oxide	AA
R711	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R712	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R713	VRS-CY1JF133F	J	13k	1/16W	Metal Oxide	AA
R715	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R716	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R717	VRS-CY1JF152F	J	1.5k	1/16W	Metal Oxide	AA
R718	VRS-CY1JF274J	J	270k	1/16W	Metal Oxide	AA
R719	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA
R720	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R721	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R722	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R723	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R724	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R725	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R726	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R729	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R731	VRS-TQ2BD000J	J	0	1/8W	Metal Oxide	AA
R732	VRS-TW2ED222J	J	2.2k	1/4W	Metal Oxide	AA
R733	VRS-TQ2BD683J	J	68k	1/8W	Metal Oxide	AA
R734	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R735	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R736	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R737	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R738	VRS-TW2ED102J	J	1k	1/4W	Metal Oxide	AA
R739	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R740	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R741	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R742	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R747	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R748	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R751	VRS-TW2ED392J	J	3.9k	1/4W	Metal Oxide	AA
R752	VRS-TW2ED392J	J	3.9k	1/4W	Metal Oxide	AA
R753	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R754	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R765	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R766	VRS-CA1JF821J	J	820	1/16W	Metal Oxide	AA
R768	VRS-CA1JF104J	J	100k	1/16W	Metal Oxide	AA
R770	VRS-CA1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R772	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R773	VRS-TW2ED000J	J	0	1/4W	Metal Oxide	AB
R774	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R801	VRS-CB1JF221J	J	220	1/16W	Metal Oxide	AC
R802	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R803	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R804	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R806	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R809	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R810	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R811	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R812	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R813	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R814	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R815	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R816	VRS-CA1JF470J	J	47	1/16W	Metal Oxide	AB
R819	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R826	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R831	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R832	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R833	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R834	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R852	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R860	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R861	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R901	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R902	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R903	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R905	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R909	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R910	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R913	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R914	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R915	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R916	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R917	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R918	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R919	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R920	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R921	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R922	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R923	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R924	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R925	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R951	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R954	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R958	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R959	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R960	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R961	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R962	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R963	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R964	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R965	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R966	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R967	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R968	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R969	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1101	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R1102	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R1103	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R1104	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R1105	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1106	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R1107	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R1108	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R1109	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R1110	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1111	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R1113	VRS-CA1JF333J	J	33k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R1115	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1116	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1117	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1118	VRS-CY1JF823F	J	82k	1/16W	Metal Oxide	AA
R1119	VRS-CY1JF472F	J	4.7k	1/16W	Metal Oxide	AA
R1120	VRS-TW2ED5R6J	J	5.6	1/4W	Metal Oxide	AA
R1121	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1123	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1124	VRS-CY1JF472F	J	4.7k	1/16W	Metal Oxide	AA
R1125	VRS-TW2ED101J	J	100	1/4W	Metal Oxide	AA
R1126	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1127	VRS-TX2HF000J	J	0	1/2W	Metal Oxide	AA
R1129	VRS-CY1JF563F	J	56k	1/16W	Metal Oxide	AA

DUNTKA077FE16
MAIN UNIT(Continued)

Ref. No.	Part No.	★	Description			Code
R1130	VRS-TW2ED5R6J	J	5.6	1/4W	Metal Oxide	AA
R1132	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1133	VRS-CY1JF223F	J	22k	1/16W	Metal Oxide	AA
R1134	VRS-CY1JF822F	J	8.2k	1/16W	Metal Oxide	AA
R1135	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R1136	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1137	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1138	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1143	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1144	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1145	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1146	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1147	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1149	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1150	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1202	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1203	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1204	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1205	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1206	VRS-CB1JF220J	J	22	1/16W	Metal Oxide	AC
R1207	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1208	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R1209	VRS-CA1JF220J	J	22	1/16W	Metal Oxide	AA
R1210	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA
R1211	VRS-CY1JF221J	J	220	1/16W	Metal Oxide	AA
R1212	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1214	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1217	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1218	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1220	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1221	VRS-CB1JF332J	J	3.3k	1/16W	Metal Oxide	AC
R1222	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R1223	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R1225	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1228	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R1229	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1230	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R1232	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1233	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1234	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R1235	VRS-CB1JF473J	J	47k	1/16W	Metal Oxide	AC
R1236	VRS-CB1JF473J	J	47k	1/16W	Metal Oxide	AC
R2001	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2002	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2003	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2004	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2007	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2008	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2009	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2010	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2011	VRS-CB1JF101J	J	100	1/16W	Metal Oxide	AA
R2014	VRS-CA1JF103J	J	10k	1/16W	Metal Oxide	AA
R2016	VRS-CA1JF223J	J	22k	1/16W	Metal Oxide	AA
R2018	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2019	VRS-CB1JF331J	J	330	1/16W	Metal Oxide	AC
R2025	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2028	VRS-CB1JF102J	J	1k	1/16W	Metal Oxide	AA
R2031	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2035	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R2041	VRS-CA1JF101J	J	100	1/16W	Metal Oxide	AA
R2042	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2045	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2047	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2048	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R2049	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R2050	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R2051	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2052	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2053	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R2054	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2055	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2056	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2057	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R2058	VRS-CY1JF474J	J	470k	1/16W	Metal Oxide	AA
R2059	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2061	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R2062	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2063	VRS-CY1JF333J	J	33k	1/16W	Metal Oxide	AA
R2067	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2068	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R2074	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2075	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2076	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R2083	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

BALUNES

FB702	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB703	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB704	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB705	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB706	RBLN-0051TAZZ	J	Balun, BLN-0051TA	AC
FB708	RBLN-0095CEZZ	J	Balun, BLN-0095CE	AD
FB709	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB801	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB802	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB901	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1201	RBLN-0090CEZZ	J	Balun, BLN-0090CE	AD
FB1202	RBLN-0006TAZZ	J	Balun, BLN-0006TA	AB
FB1203	RBLN-0076TAZZ	J	Balun, BLN-0076TA	AC

MISCELLANEOUS PARTS

P701	QPLGN1178GEZZ	J	Plug, 11Pin	AC
P751	QPLGN0155FJZZ	J	Plug, 3Pin(HV)	AE
P752	QPLGN0155FJZZ	J	Plug, 3Pin(HU)	AE
P2002	QPLGN1320REZZ	J	Plug, 13Pin	AC
P2003	QPLGN0520REZZ	J	Plug, 5Pin	AB
P2004	QPLGN0420REZZ	J	Plug, 4Pin	AA
SC401	QSOCN0464FJZZ	J	Socket, 50Pin	AH
SC1201	QSOCN0461FJZZ	J	Socket, 53Pin	AH
SC1203	QSOCN0199FJZZ	J	Socket, 20Pin	AE
	LHLDW1077GEZZ	J	Holder	AA

DUNTKA645DE01
TERMINAL UNIT

TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

TU3201	VTUVT2U5CD553	J	VHF Tuner	BD

TRANSISTORS

Q3201	VSDTC144EE/-1	J	DTC144EE	AA
Q3202	VSDTC144EE/-1	J	DTC144EE	AA
Q3203	VSDTC144EE/-1	J	DTC144EE	AA
Q3204	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3205	VS2SC3928AR-1	J	2SC3928AR	AB
Q3301	VS2SC3928AR-1	J	2SC3928AR	AB
Q3302	VS2SC2712Y/-1	J	2SC2712Y	AB
Q3303	VSDTC314TK/-1	J	DTC314TK	AC
Q3304	VSDTC314TK/-1	J	DTC314TK	AC
Q3401	VS2SC3928AR-1	J	2SC3928AR	AB
Q3402	VS2SC3928AR-1	J	2SC3928AR	AB
Q3403	VSDTC144EE/-1	J	DTC144EE	AA
Q3404	VS2SK1467//-1	J	2SK1467	AE
Q3405	VS2SK1467//-1	J	2SK1467	AE

DIODES

D3301	VHDDE5SC4M/-1	J	DE5SC4M	AF
D3401	RH-EX1271CEZZ	J	Zener Diode, 12V	AB
D3402	RH-EX1271CEZZ	J	Zener Diode, 12V	AB
D3403	RH-EX1271CEZZ	J	Zener Diode	AB

Ref. No.	Part No.	★	Description	Code
DUNTKA645DE01 TERMINAL UNIT(Continued)				
COILS				
L3201	VP-1M220J2R9N	J	Peaking, 22µH	AC
L3202	RCiLC0141CEZZ	J	Coil, CiLC0141CE	AF
L3401	VP-1M101J7R7N	J	Peaking, 100µH	AC
CAPACITORS				
C3201	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C3202	VCEA4U0JN338M	J	3300 6.3V Electrolytic	AE
C3203	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C3204	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C3205	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C3207	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C3208	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C3209	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C3210	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C3301	VCE9PF1AW106M	J	10 10V Electrolytic	AE
C3302	VCE9PF1AW106M	J	10 10V Electrolytic	AE
C3303	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C3304	VCKYTV1CB105K	J	1 16V Ceramic	AC
C3305	VCKYTV1CB105K	J	1 16V Ceramic	AC
C3306	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C3308	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C3311	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C3312	RC-EZ0417CEZZ	J	150 16V Electrolytic	AD
C3313	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C3314	VCKYTV1CB105K	J	1 16V Ceramic	AC
C3315	VCKYTV1CB105K	J	1 16V Ceramic	AC
C3402	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C3403	VCEAPW1CN477M	J	470 16V Electrolytic	AE
C3404	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C3405	VCEAPF0JW336M	J	33 6.3V Electrolytic	AB
C3406	RC-KZ1025CEZZ	J	1 10V Ceramic	AB
C3407	VCEAPF0JW226M	J	22 6.3V Electrolytic	AB
RESISTORS				
R3201	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3202	VRS-CA1JF561J	J	560 1/16W Metal Oxide	AA
R3203	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3204	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3205	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R3206	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R3207	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R3208	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R3209	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3210	VRS-TQ2BD000J	J	0 1/8W Metal Oxide	AA
R3301	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3302	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3303	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3304	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3305	VRS-TQ2BD750J	J	75 1/8W Metal Oxide	AA
R3306	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3307	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3308	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3309	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3310	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3313	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3314	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3315	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3316	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3319	VRS-TQ2BD750J	J	75 1/8W Metal Oxide	AA
R3320	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3321	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R3323	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3324	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3326	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3327	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3328	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3329	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3330	VRS-TX2HF331J	J	330 1/2W Metal Oxide	AB
R3331	VRS-TX2HF331J	J	330 1/2W Metal Oxide	AB
R3332	VRS-CR3AD3R9J	J	3.9 1W Metal Oxide	AC
R3333	VRS-CR3AD3R9J	J	3.9 1W Metal Oxide	AC
R3334	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R3401	VRS-TQ2BD750J	J	75 1/8W Metal Oxide	AA
R3402	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3404	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3405	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R3409	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R3410	VRS-TQ2BD750J	J	75 1/8W Metal Oxide	AA
R3411	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA
R3412	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA
R3413	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R3414	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R3415	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R3416	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R3417	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA
R3701	VRS-TW2ED000J	J	0 1/4W Metal Oxide	AB
R3702	VRS-TW2ED000J	J	0 1/4W Metal Oxide	AB
BALUNES				
FB3401	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3402	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3403	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3404	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3405	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3406	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3407	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3408	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3409	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3410	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3411	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3412	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3413	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
FB3414	RBLN-0059CEZZ	J	Balun, BLN-0059CE	AB
MISCELLANEOUS PARTS				
⚠ FH3701	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3702	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3703	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3704	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3751	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ FH3752	QFSHD1002CEZZ	J	Fuse Holder	AA
⚠ F3701	QFS-C1223CEZZ	J	Fuse, 1.25A	AD
⚠ F3702	QFS-C1223CEZZ	J	Fuse, 1.25A	AD
⚠ F3751	QFS-C2023CEZZ	J	Fuse, 2A	AD
J3301	QSOCD0406GEZZ	J	Socket, AV Input 1	AF
J3302	QJAKJ0080CEZZ	J	Jack, AV Output	AF
J3303	QJAKE0166CEZZ	J	Jack, AV Input 1	AE
J3304	QJAKE0167CEZZ	J	Jack, AV Input 1	AE
J3305	QJAKJ0080CEZZ	J	Jack, AV Input 2	AF
J3401	QJAKJ0080CEZZ	J	Jack, AV Input 2	AF
J3402	QJAKE0168CEZZ	J	Jack, AV Input 1	AE
J3403	QJAKJ0080CEZZ	J	Jack, AV Output	AF
J3404	QJAKJ0080CEZZ	J	Jack, Head Phone	AF
J3701	QJAKE0165CEZZ	J	Jack, Power Input	AE
P3203	QPLGN0280GEZZ	J	Plug, 2Pin	AB
P3204	QPLGN0280GEZZ	J	Plug, 2Pin	AB
P3701	QPLGN1178GEZZ	J	Plug, 11Pin	AC
SC3401	QSOCN0464FJZZ	J	Socket, 50Pin	AH
DUNTKA646DE01 OPERATION UNIT				
DIODES				
D4016	RH-EX1271CEZZ	J	Zener Diode	AB
D4017	RH-EX1271CEZZ	J	Zener Diode	AB
D4018	RH-EX1283CEZZ	J	Zener Diode	AB
D4019	RH-EX1283CEZZ	J	Zener Diode	AB
CAPACITORS				
C4001	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C4002	VCCCCY1HH471J	J	470p 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code

DUNTKA646DE01 OPERATION UNIT(Continued)

RESISTORS

R4080	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R4081	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide		AA
R4082	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide		AA
R4083	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide		AA
R4084	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R4085	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide		AA
R4086	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide		AA

SWITCHES

S4009	QSW-K0088GEZZ	J	Switch, MENU	AD
S4010	QSW-K0088GEZZ	J	Switch, CH(+)	AD
S4011	QSW-K0088GEZZ	J	Switch, CH(–)	AD
S4012	QSW-K0088GEZZ	J	Switch, MUTE	AD
S4013	QSW-K0088GEZZ	J	Switch, BRIGHT	AD
S4014	QSW-K0088GEZZ	J	Switch, VOL(–)	AD
S4015	QSW-K0088GEZZ	J	Switch, VOL(+)	AD
S4016	QSW-K0088GEZZ	J	Switch, TV/VIDEO	AD
S4017	QSW-K0088GEZZ	J	Switch, DISPLAY	AD
S4701	QSW-S0213CEZZ	J	Switch, MAIN POWER	AE

MISCELLANEOUS PART

P4004	QPLGN0564TAZZ	J	Plug, 5Pin	AC

DUNTKA647DE01 LED UNIT

TRANSISTORS

Q4106	VSDTC144EE/-1	J	DTC144EE	AA
Q4107	VSUMG4/////-1	J	UMG4	AC

DIODES AND LED

D4120	RH-EX1271CEZZ	J	Zener Diode	AB
D4121	RH-EX1271CEZZ	J	Zener Diode	AB
D4122	RH-PX0368CEZZ	J	PhotoDiode	AE

CAPACITOR

C4120	VCKYTV1CF105Z	J	1	16V	Ceramic		AB

RESISTORS

R4187	VRS-CY1JF331J	J	330	1/16W	Metal Oxide		AA
R4188	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R4189	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide		AA
R4190	VRS-CY1JF101J	J	100	1/16W	Metal Oxide		AA

MISCELLANEOUS PARTS

RMC4101	RRMCU0239CEZZ	J	Remote Receiver	AG
SC4102	QPLGN0464TAZZ	J	Plug, 4Pin	AC
SLD4101	PSLDM4646CEFW	J	Shield	AD

Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

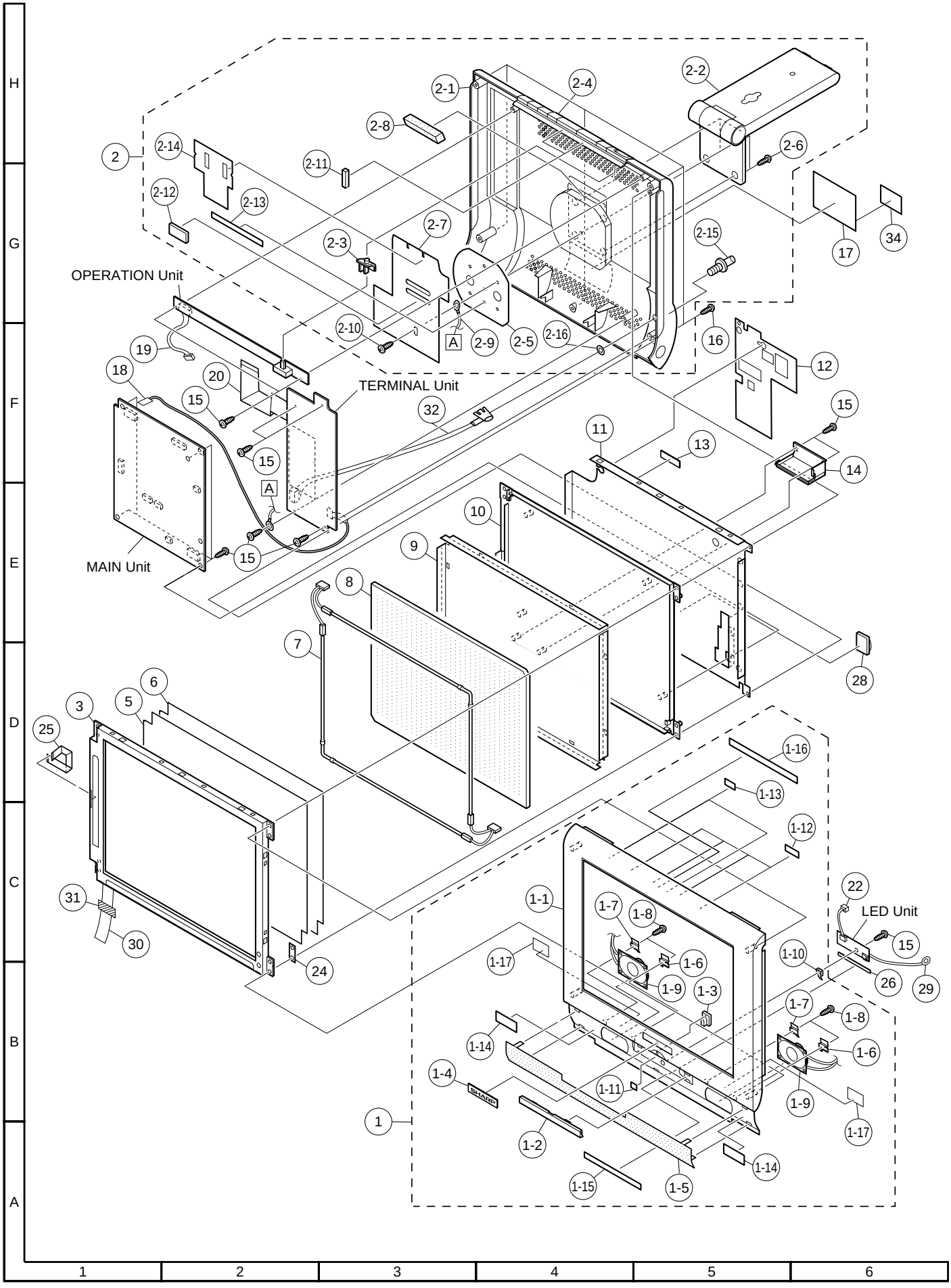
	LANGU9053CE01	J	Wall Mount Parts	AS
⚠	QACCB0016TAZZ	J	AC Cord(LC-10A3E(K))	AV
⚠	QACCK0002TAZZ	J	AC Cord(LC-10A3E)	AM
	QCNW-5685CEZZ	J	AV Cable for Mini-jack	AY
	RRMCG1618CESA	J	Infrared R/C Unit	AV
	TiNS-7449CEZZ	J	Operation Manual	AY
⚠	UADP-0225CEPZ	J	AC Adaptor	BE

PACKING PARTS *(NOT REPLACEMENT ITEM)*

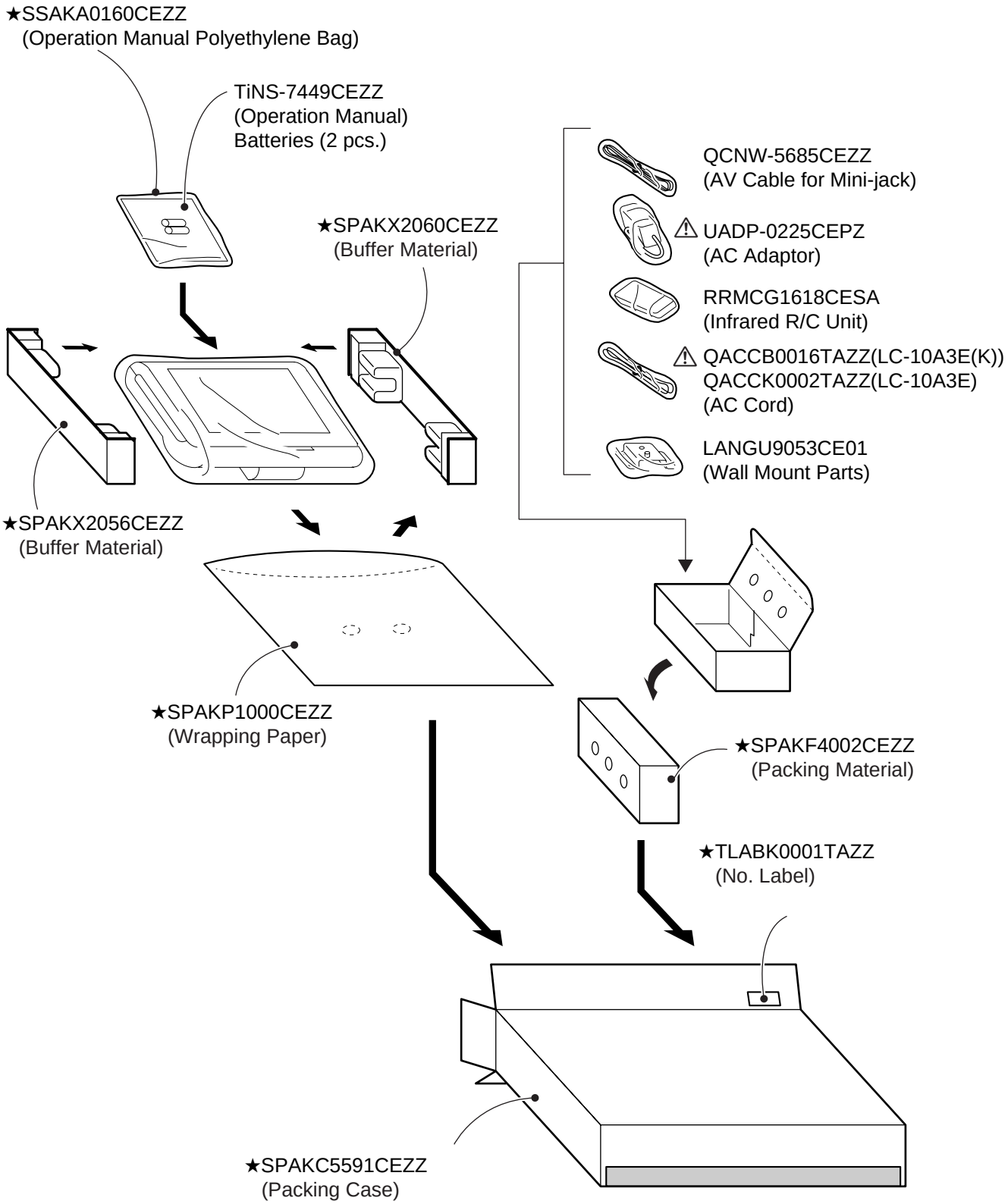
SPAKC5591CEZZ	–	Packing Case	—
SPAKF4002CEZZ	–	Packing Material	—
SPAKP1000CEZZ	–	Wrapping Paper	—
SPAKX2056CEZZ	–	Buffer Material	—
SPAKX2060CEZZ	–	Buffer Material	—
SSAKA0160CEZZ	–	Operation Manual Polyethylene Bag	—
TLABK0001TAZZ	–	No. Label	—

Ref. No.	Part No.	★	Description	Code
	CABINET PARTS LOCATION			
1	CCABA2425CE05	J	Front Cabinet Ass'y	BD
1-1	*Not Available*	–	Front Cabinet	—
1-2	GCOVA2018CEKA	J	Cover, for R/C Receiver	AG
1-3	GCOVA1817CESA	J	Cover, for LED	AE
1-4	HBDGB3133CESM	J	Badge, "SHARP"	AG
1-5	HDECA0200CESG	J	Decoration Plate	AK
1-6	LANGS0101CEFW	J	Speaker Punching (R), x2	AD
1-7	LANGS0102CEFW	J	Speaker Punching (L), x2	AD
1-8	XEBSD20P05000	J	Screw, for Speaker, x4	AA
1-9	VSP4030P-428D	J	Speaker, x2	AR
1-10	MSPRP0200CEFW	J	Spring, for Punching Earth	AD
1-11	PSPAP0052CEZZ	J	Spacer	AA
1-12	PSPAG2002CEZZ	J	Spacer, x4	AA
1-13	PSPAG2003CEZZ	J	Spacer, x2	AA
1-14	PSPAH1002CEZZ	J	Spacer, x2	AB
1-15	PSPAH1003CEZZ	J	Spacer	AB
1-16	PSPAH1004CEZZ	J	Spacer	AB
1-17	PSPAH0704CEUZ	J	SP Spacer	AB
2	CCABB2324CE01	J	Rear Cabinet Ass'y	BG
2-1	*Not Available*	–	Rear Cabinet	—
2-2	GDAi-1084CESD	J	Set Stand	AX
2-3	JKNBP1166CEKA	J	Knob, Power	AE
2-4	JBTN-2075CEKA	J	Button, Control	AL
2-5	LANGF9600CEFW	J	Set Stand Angle	AG
2-6	XBPSF30P10KS0	J	Screw, x4	AB
2-7	PZETZ0015CEZZ	J	Insulator, Set Stand	AG
2-8	PMLT-0316CEZZ	J	Absorber	AB
2-9	QCNW-6047CEZZ	J	Earth Cable	AB
2-10	XEBSD30P08000	J	Screw	AA
2-11	PMLT-0318CEZZ	J	Absorber, x2	AB
2-12	PMLT-0356CEZZ	J	Absorber	AB
2-13	PSPAG2004CEZZ	J	Spacer	AB
2-14	PSPAH1001CEZZ	J	Spacer	AD
2-15	QCNCW0129CEZZ	J	PAL-RCA Convert	AM
2-16	LX-NZ3047GEZZ	J	Nut	AA
3	RLCDT0067CEZZ	J	LCD Module Unit	DB
5	PSHEP0271CEZZ	J	Diffusion Sheet	AH
6	PSHEP0271CEZZ	J	Diffusion Sheet	AH
⚠ 7	KLMP-0116CEZZ	J	Lamp	AZ
8	PGiDM0100CEZZ	J	Light Guide Plate	AV
9	PSHEP0272CEZZ	J	Diffusion Sheet	AF
10	LHLDZ2141CEKZ	J	Panel Holder	AS
11	PSLDM4602CEFW	J	Shield	AK
12	PZETK0101CEZZ	J	Insulator	AF
13	PSPAG2000CEZZ	J	Light Shielding Spacer	AC
14	PSLDM4674CEFW	J	Shield	AF
15	XEBSD30P08000	J	Screw, x14	AA
16	XEBSF30P12000	J	Screw, x5	AA
17	HiNDP5844CESA	J	Model Label	AF
18	QCNW-5538CEZZ	J	Power Cable	AG
19	QCNW-5279CEZZ	J	Key Cable	AF
20	QCNW-5539CEZZ	J	Main-Terminal FFC	AK
22	QCNW-5285CEZZ	J	RC/LED Cable	AF
24	PSPAK0035CEZZ	J	Spacer	AA
25	QCNW-4941CEZZ	J	Gate FFC	AE
26	PSPAG2001CEZZ	J	Spacer	AE
28	LHLDW1173CEZZ	J	Wire Holder	AD
29	QCNW-5710CEZZ	J	Earth Wire	AC
30	QCNW-5951CEZZ	J	Source FFC	AF
31	RCORF0064CEZZ	J	Core	AL
32	QCNW-6049CEZZ	J	ANT Cable	AM
34	TLABN0369CEZZ	J	Serial No. Label (LC-10A3E)	AF
34	TLABN0370CEZZ	J	Serial No. Label (LC-10A3E(K))	AF

CABINET AND MECHANICAL PARTS



PACKING OF THE SET



★ Not Replacement Item

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SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Yaita, Tochigi 329-2193, Japan